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HELP YOURSELF *Series*

Beginning Arithmetic

REVISED EDITION



DART
Whitman

Suggestions for Using **Beginning Arithmetic**

Revised Edition

This book is designed to give the child of primary school age many hours of pleasure while he helps himself to extend his knowledge of number concepts and arithmetic facts through meaningful games and play activities.

The games are self-explanatory and the pages are to be followed in sequence. With very little help from parent or teacher a child can learn the basic arithmetic facts while he plays the games and works the problems. The simple directions and other reading matter are based on the reading vocabulary of the modern primary school.

BEGINNING ARITHMETIC will help a child to play his way to learning addition and subtraction combinations, telling time, measuring, and other number skills. Through careful planning the book takes a child from concrete illustrations to semi-concrete examples and finally to abstract thinking.

This Help-Yourself Activity Book is based on scientific research and the knowledge of how children learn. It was written and tested by Gladys M. Horn, a primary school teacher, whose training and experience are in the field of child development.

Like others in this series, this book is ungraded. Any child, regardless of age, can use it with pride and satisfaction.

It is suggested that this book be preceded by COUNT, COLOR, PLAY. A description of this and other Help-Yourself Activity Books will be found inside the back cover of this book.

Beginning Arithmetic



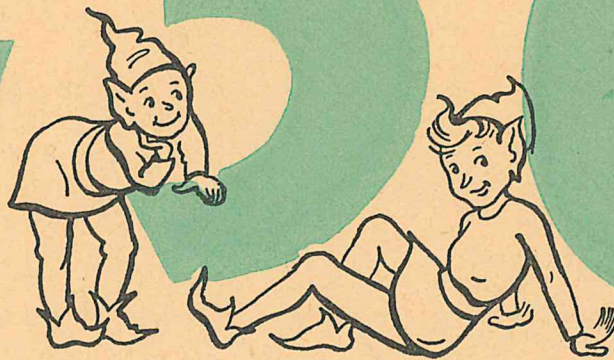
Planned by
GLADYS M. HORN
Teacher in the Shorewood Schools, Milwaukee, Wisconsin

Illustrated by
DOROTHEA J. SNOW

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RACINE, WISCONSIN

Printed in U.S.A.



In this big book made just for you
Are happy things for you to do.

The clocks will help you tell the time.

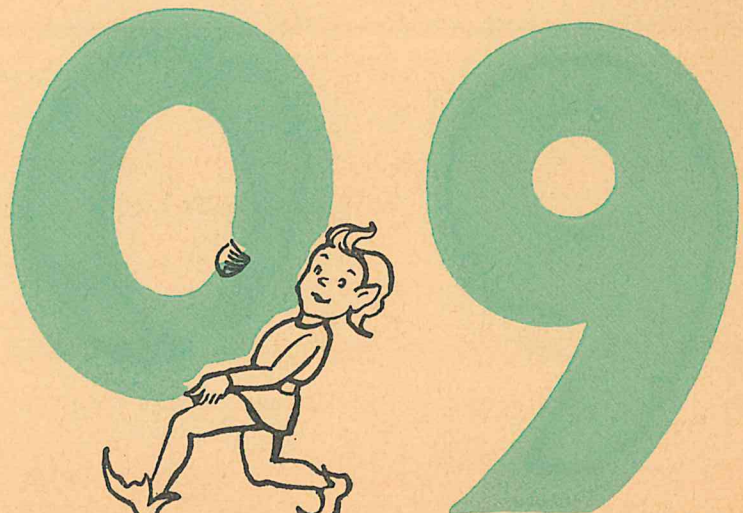
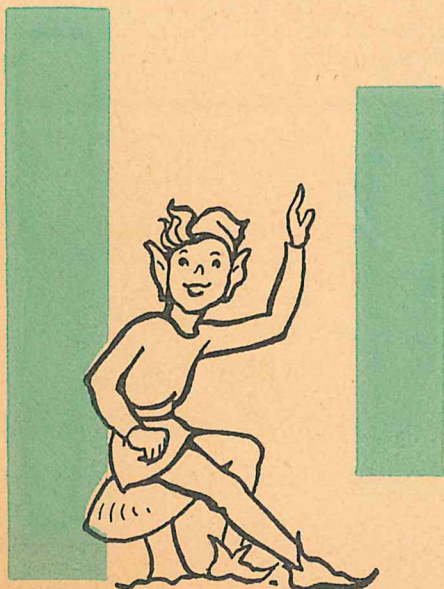
And here and there you'll find a rhyme.

Numbers to add or to take away,

Arithmetic's a game to play.

So get your crayons and pencils, too,

And you'll find lots of things to do.



Count from 1 to 10. 1 2 3 4 5 6 7 8 9 10

Now count from 10 to 1. 10 9 8 7 6 5 4 3 2 1

Write numbers from 1 to 10.

1	_____	_____	_____
2	_____	_____	_____
3	_____	_____	_____
4	_____	_____	_____
5	_____	_____	_____
6	_____	_____	_____
7	_____	_____	_____
8	_____	_____	_____
9	_____	_____	_____
10	_____	_____	_____

Write numbers from 10 to 1.

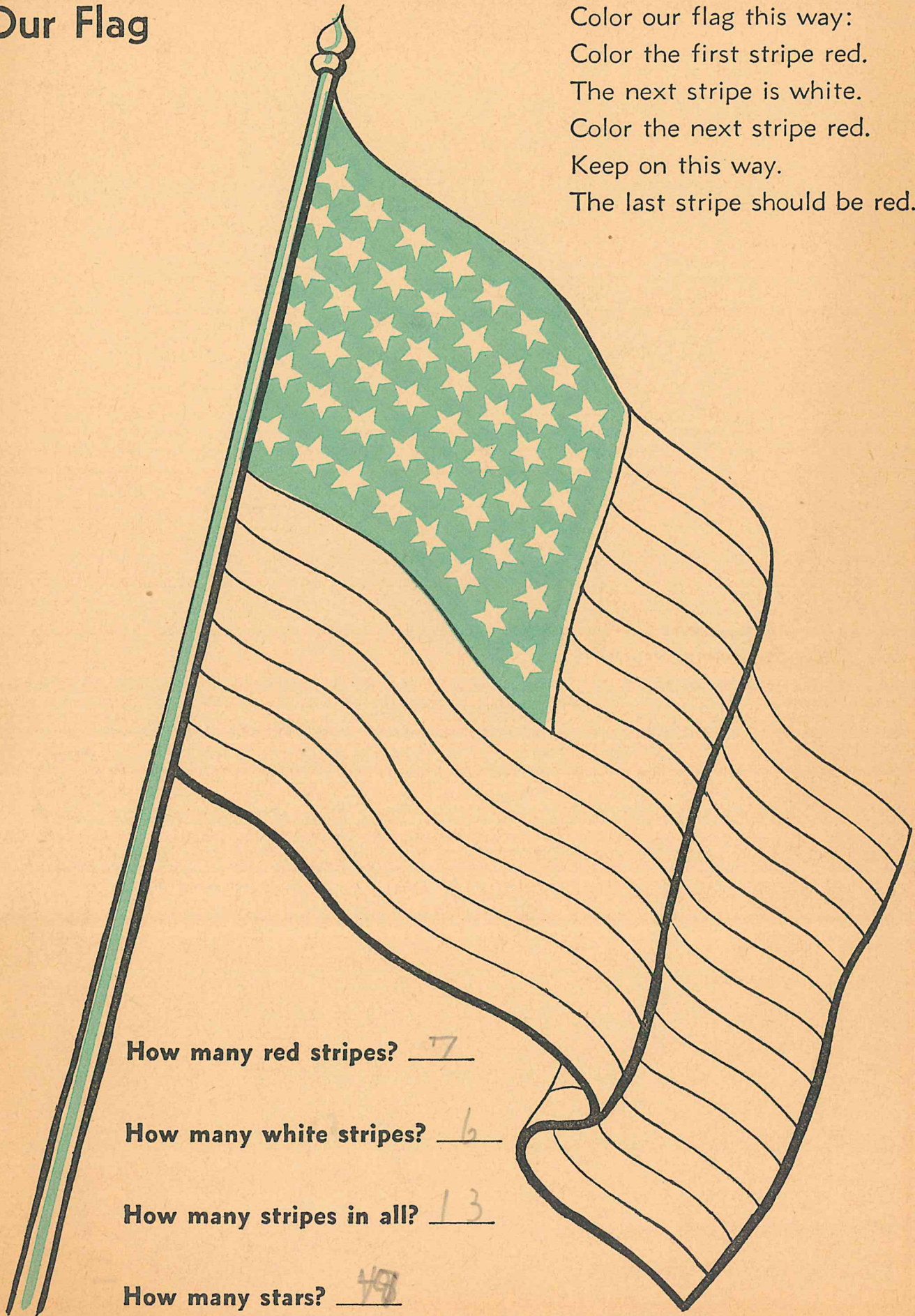
10	_____	_____	_____
9	_____	_____	_____
8	_____	_____	_____
7	_____	_____	_____
6	_____	_____	_____
5	_____	_____	_____
4	_____	_____	_____
3	_____	_____	_____
2	_____	_____	_____
1	_____	_____	_____

Write numbers on these lines.

<u>1</u>	<u>2</u>	_____	_____	_____
_____	_____	_____	_____	_____

Our Flag

Color our flag this way:
Color the first stripe red.
The next stripe is white.
Color the next stripe red.
Keep on this way.
The last stripe should be red.



How many red stripes? 7

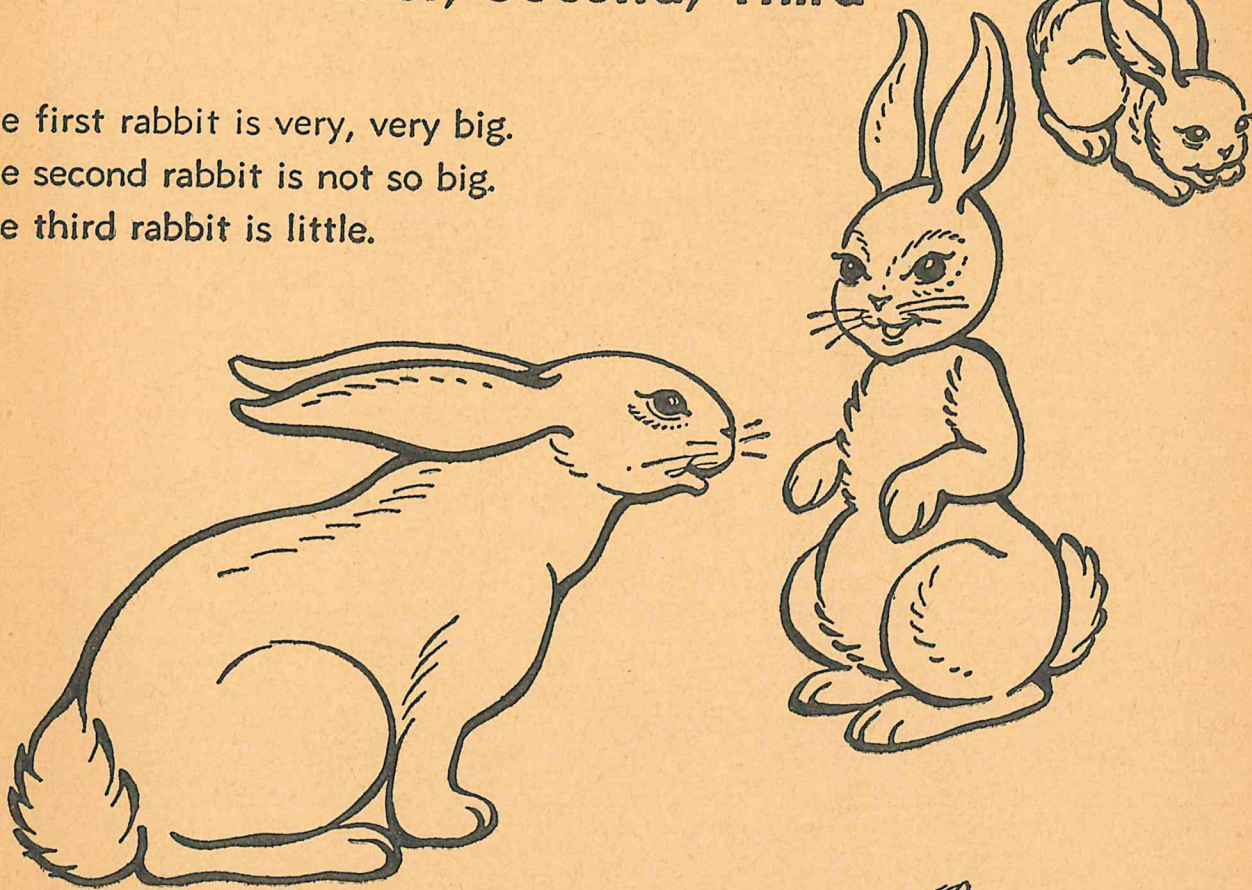
How many white stripes? 6

How many stripes in all? 13

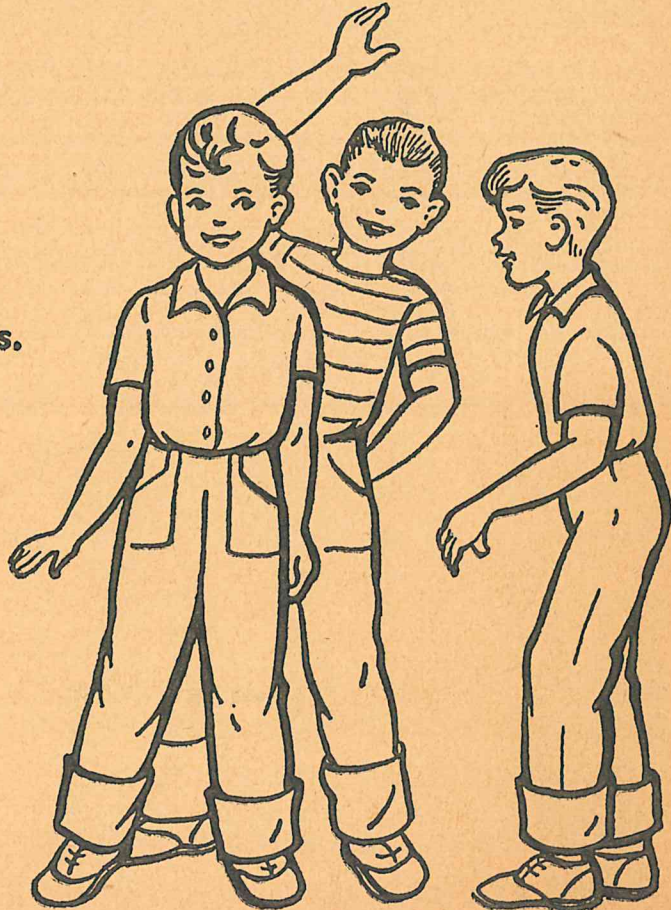
How many stars? 48

First, Second, Third

The first rabbit is very, very big.
The second rabbit is not so big.
The third rabbit is little.



Color the second rabbit black.
Color the first rabbit brown.
Do not color the third rabbit.
Give the third rabbit a carrot to eat.
Put green grass around all the rabbits.



Give the third boy a big red book.
Give the first boy a bat and ball.
Put a hat on the second boy.
Now color the three boys.

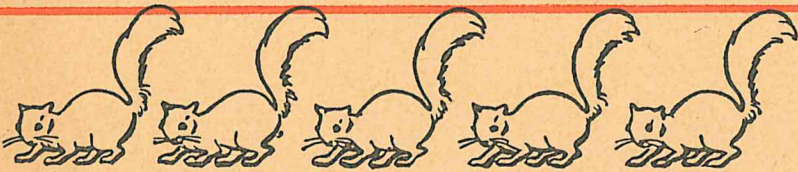
Numbers missing from their places?
Write them, now, in all the spaces.

1	11	21	31	41
2	12	22	32	42
3	13	23	33	43
4	14	24	34	44
5	15	25	35	45
6	16	26	36	46
7	17	27	37	47
8	18	28	38	48
9	19	29	39	49
10	20	30	40	50

Writing numbers can be fun.
Write to fifty. Start with one.

1				
2				
3				

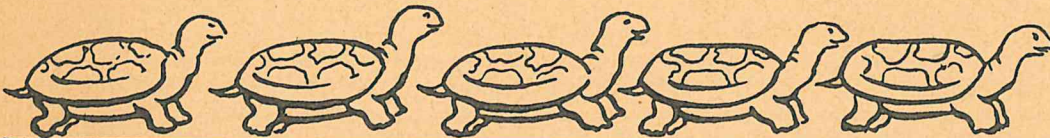
One, two, three, and go!
Count the pictures in each row.



5



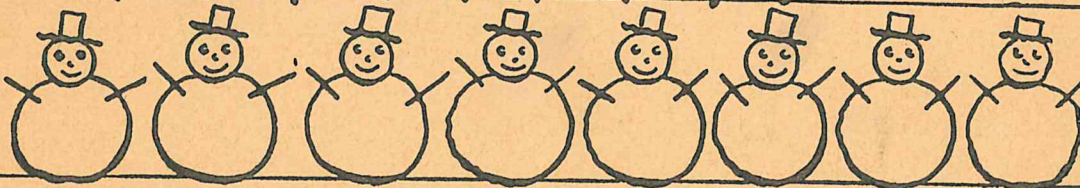
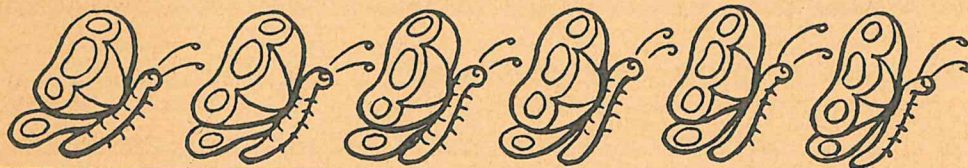
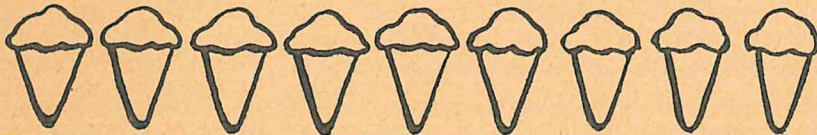
7



5



8



Here's something nice for you to do.

The answers will tell some things about you.

How old are you? 17

What is your house number? 170

What is your telephone number? 40371

How many are in your family? 2

How many sisters have you? 0

How many brothers have you? 0

How many hands have you? 2

How many fingers on one hand? 5

How many fingers on the other hand? 5



How many fingers all together? 10

How many feet have you? 2

How many toes on one foot? 5

How many toes on the other foot? 5

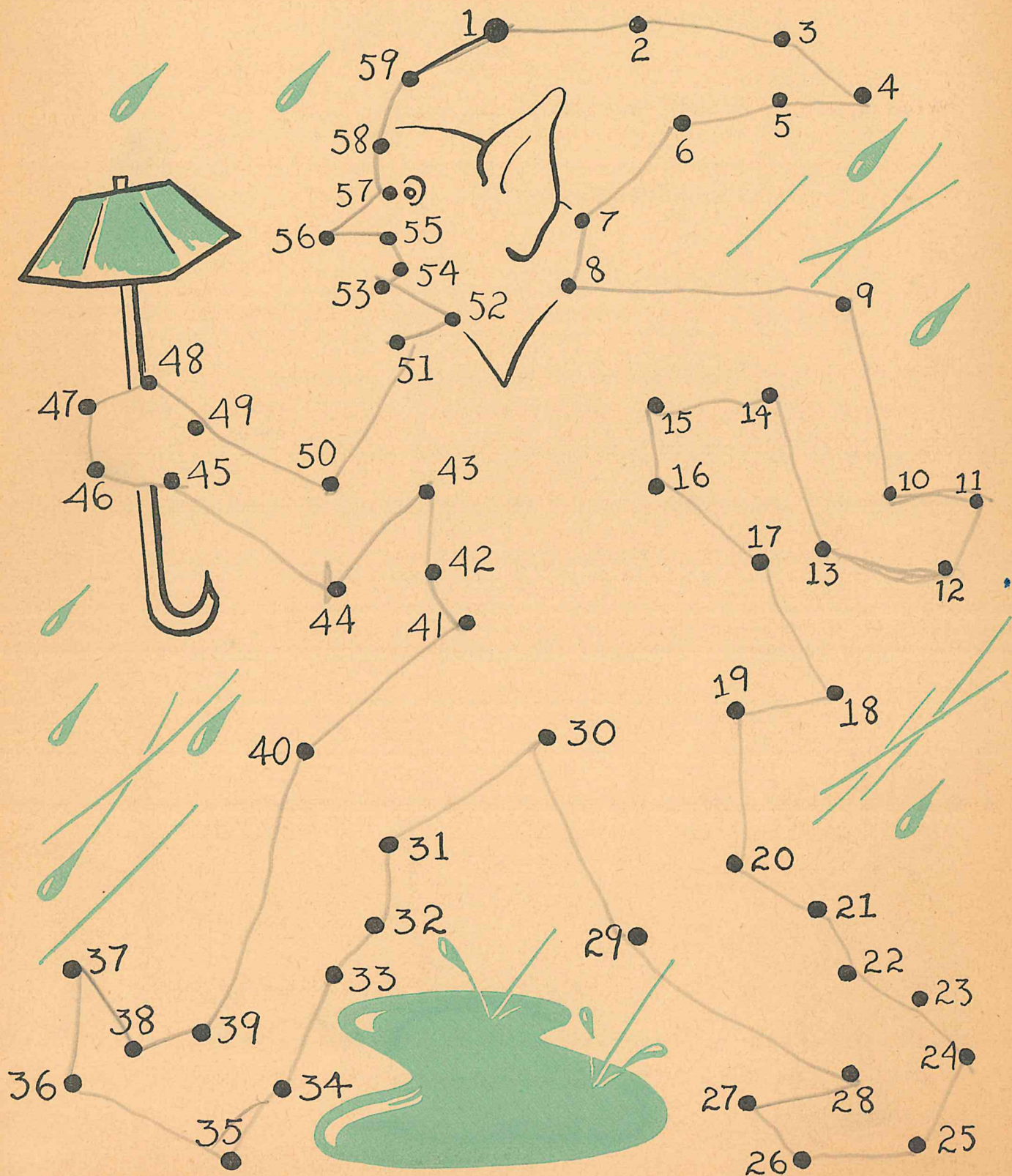
How many toes all together? 10

How many lines did you write on? 14

Follow the Dots

Begin with one, then go to two.

You'll be surprised when you are through.



Days of the Week

Sunday Monday Tuesday Wednesday Thursday Friday Saturday

Sunday is the first day of the week.

What day is second? Mon

What day is third? _____

What day is fourth? _____

What day is fifth? _____

What day is sixth? _____

What is the seventh and last day of the week? _____

You can make a calendar.

Write the name of the month on the line.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday

Here are 10 balloons for you to color.

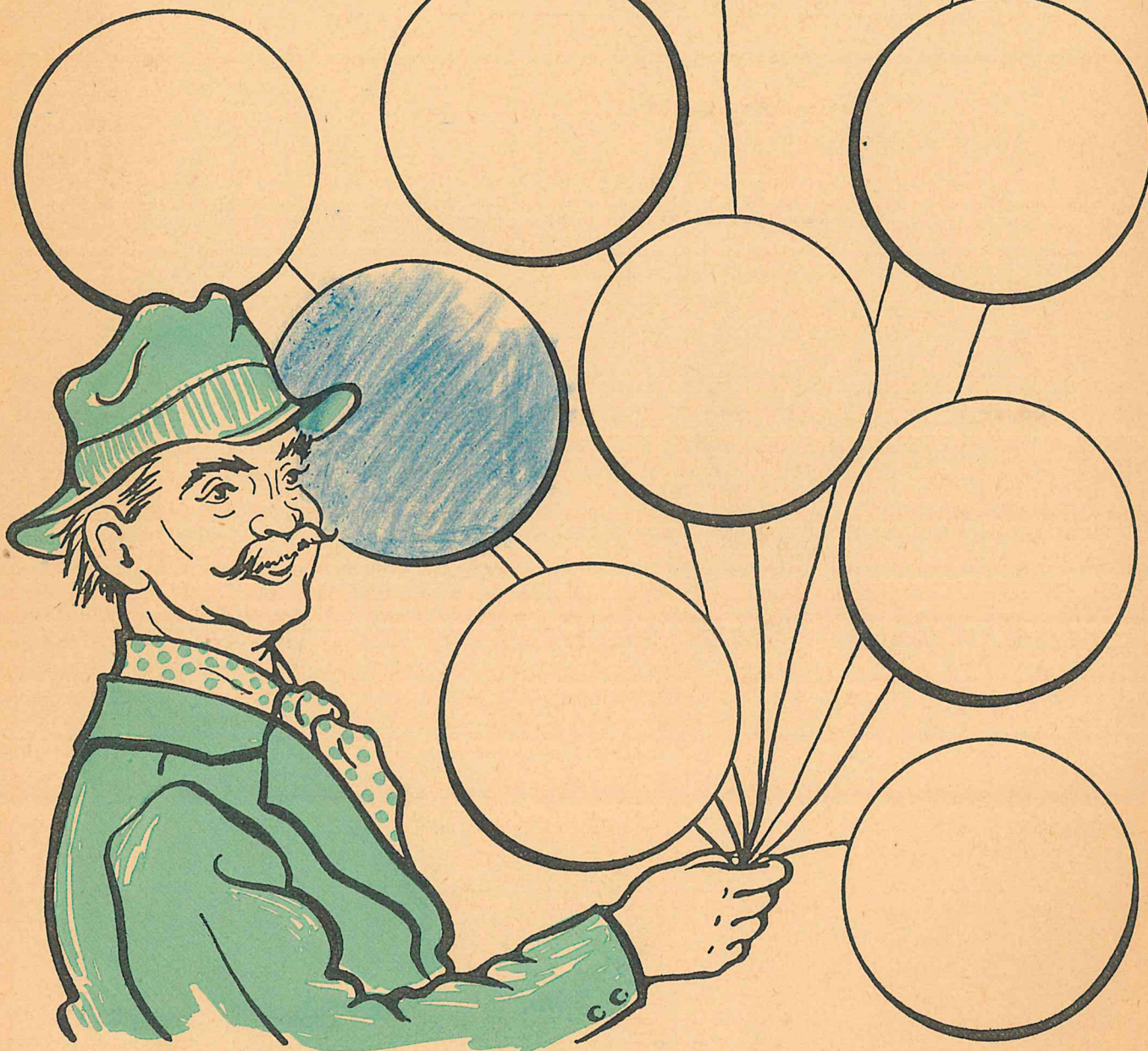
Color 2 balloons blue.

Color 2 balloons red.

Color 2 balloons orange.

Color 2 balloons yellow.

Color 2 balloons green.



Count the balloons by 2's. How many are there? _____

We count by 2's like this: 2 4 6 8 10.

Write numbers counting by 2's. _____



One day Carol was swinging.
By and by Judy came along.

Then there were two girls swinging.

Color Carol and Judy.



One girl and one girl are two girls.

$$1 + 1 = 2$$

$$\begin{array}{r} 1 \\ + 1 \\ \hline 2 \end{array}$$

John had one top. Tom had no top at all.

Color Tom and John.

One top and no top is one top.

$$1 + 0 = 1$$

$$\begin{array}{r} 1 \\ + 0 \\ \hline 1 \end{array}$$

Write the answers.

$$\begin{array}{r} 1 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ + 1 \\ \hline \end{array}$$



Adding One More Number



and



are 2



and



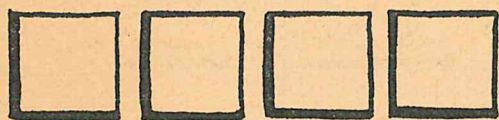
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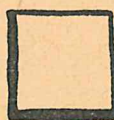
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and



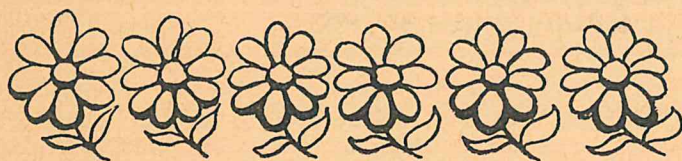
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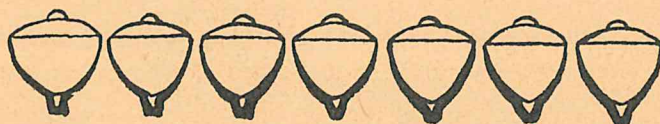
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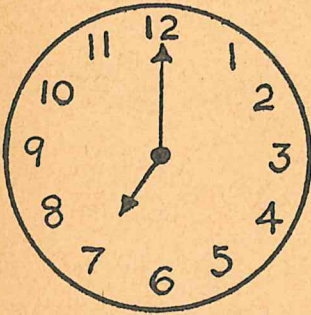


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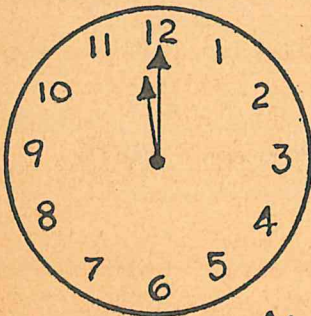
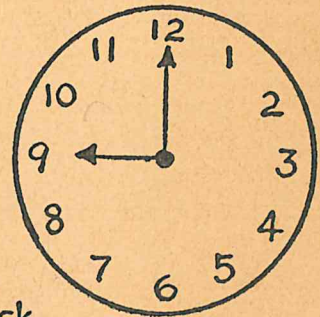
Billy's Day



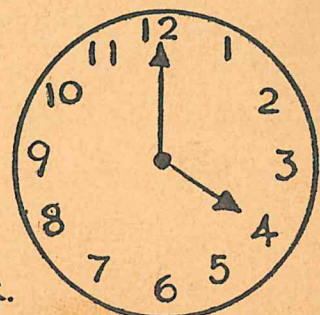
Billy gets up at 7 o'clock.



He is in school at 9 o'clock.

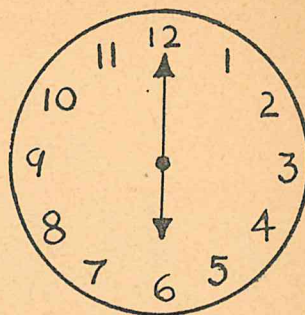
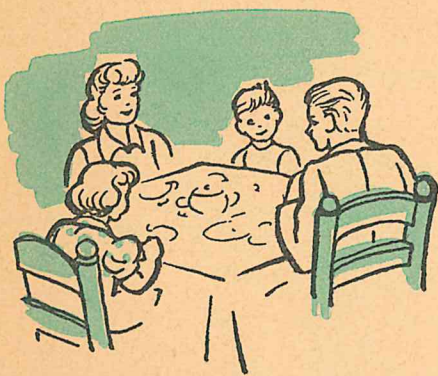


At 12 o'clock he eats lunch.

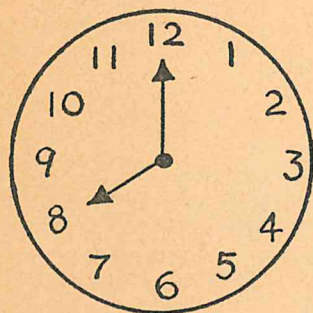


School is over at 4 o'clock.





Billy eats supper at 6 o'clock.



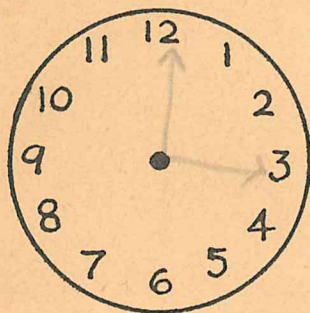
And he goes to bed at 8 o'clock.



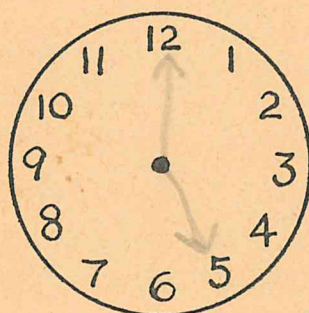
Good night, Billy!

Can you make the clocks tell the time?

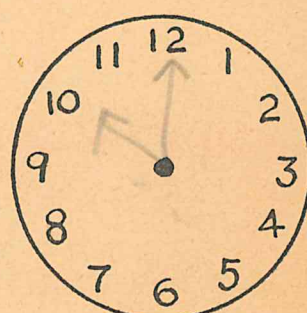
Put hands on each clock.



3 o'clock



5 o'clock



10 o'clock

Put the missing number in each space.

51	52	53	54	55	56		58	59	60
61	62	63		65	66	67	68	69	70
71	72	73	74		76	77	78		80
81		83	84	85	86	87		89	90
91	92	93	94		96	97	98	99	100

Can you write numbers from 51 to 100? Try it.

51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Smallest and Biggest

Put a blue ring around the smallest number in each row.

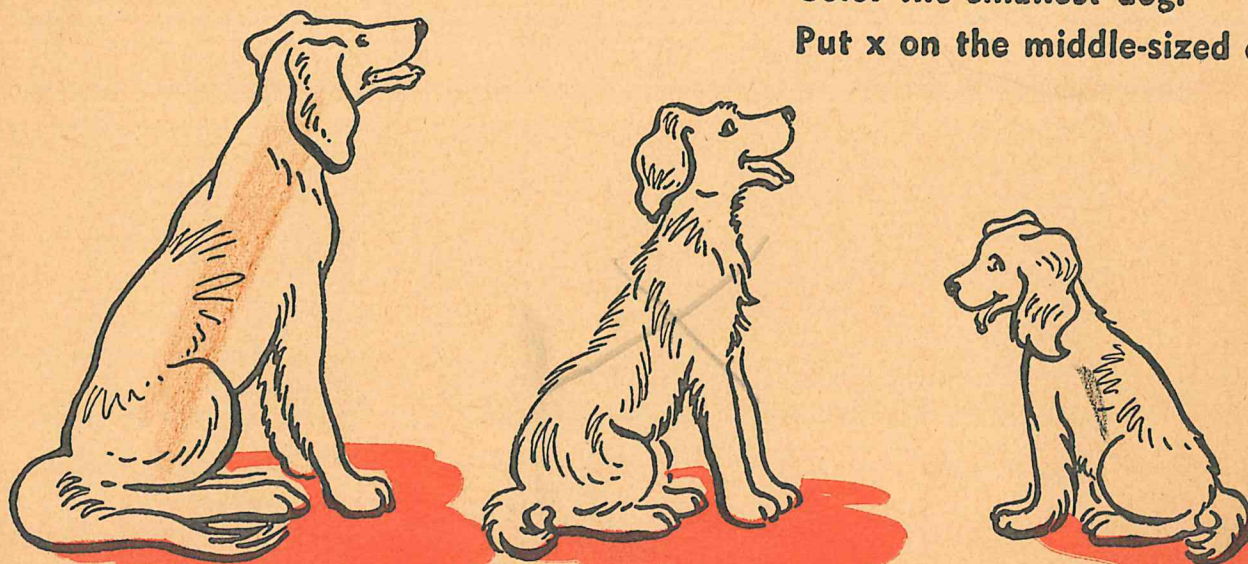
Put a red ring around the biggest number in each row.

14	27	80	41	24	18	21
52	79	40	25	97	26	96
28	82	15	88	51	78	19
36	45	93	71	17	61	69
21	68	12	84	51	48	14

Color the biggest dog brown.

Color the smallest dog.

Put x on the middle-sized dog.



Some Problems for You to Do

Add the numbers.

$$\begin{array}{r} 1 \\ + 1 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 4 \\ + 4 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 6 \\ + 1 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 1 \\ + 7 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 0 \\ + 1 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 7 \\ + 1 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 1 \\ + 2 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 9 \\ + 1 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 1 \\ + 0 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 1 \\ + 3 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 2 \\ + 0 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 1 \\ + 5 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 0 \\ + 7 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 1 \\ + 3 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 1 \\ + 4 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 0 \\ + 6 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 5 \\ + 1 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 1 \\ + 6 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 3 \\ + 0 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 1 \\ + 7 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 4 \\ + 1 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 0 \\ + 9 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 2 \\ + 1 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 8 \\ + 1 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 5 \\ + 0 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 3 \\ + 1 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 1 \\ + 9 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 5 \\ + 0 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 1 \\ + 8 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 6 \\ + 1 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 0 \\ + 9 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 7 \\ + 1 \\ \hline 8 \end{array}$$

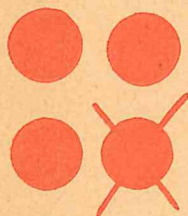
$$\begin{array}{r} 0 \\ + 0 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 3 \\ + 1 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 4 \\ + 1 \\ \hline 5 \end{array}$$

A Game

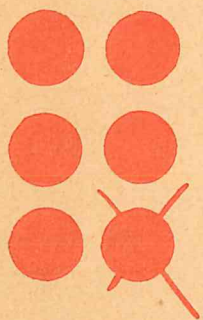
Here is a game for you to play.
The little lines mean take away.



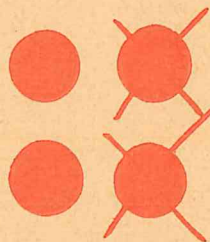
$$\begin{array}{r} 4 \\ -1 \\ \hline 3 \end{array}$$



$$\begin{array}{r} 1 \\ -0 \\ \hline 1 \end{array}$$



$$\begin{array}{r} 6 \\ -1 \\ \hline 5 \end{array}$$



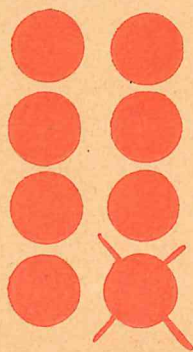
$$\begin{array}{r} 4 \\ -2 \\ \hline 2 \end{array}$$



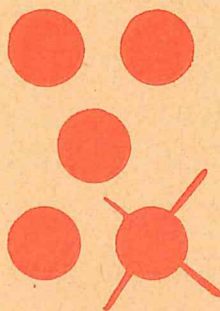
$$\begin{array}{r} 2 \\ -1 \\ \hline 1 \end{array}$$



$$\begin{array}{r} 3 \\ -0 \\ \hline 3 \end{array}$$

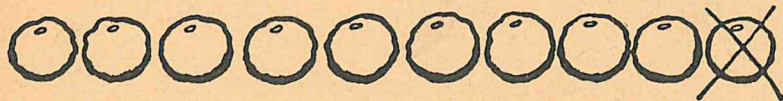


$$\begin{array}{r} 8 \\ -1 \\ \hline 7 \end{array}$$

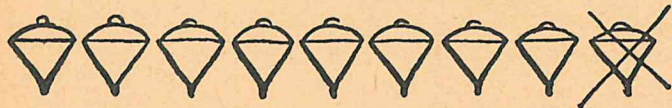


$$\begin{array}{r} 5 \\ -1 \\ \hline 4 \end{array}$$

Taking One Away



$$10 - 1 = 9$$



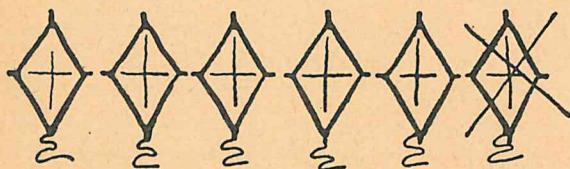
$$9 - 1 = 8$$



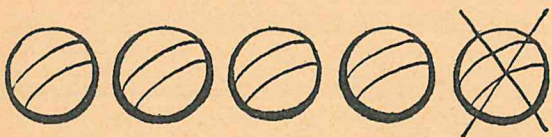
$$8 - 1 = 7$$



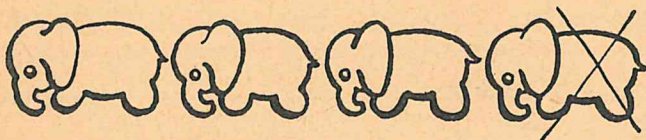
$$7 - 1 = 6$$



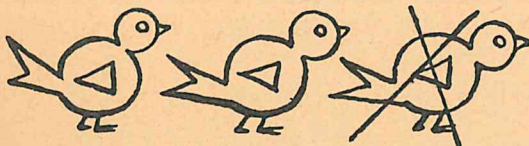
$$6 - 1 = 5$$



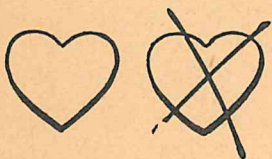
$$5 - 1 = 4$$



$$4 - 1 = 3$$



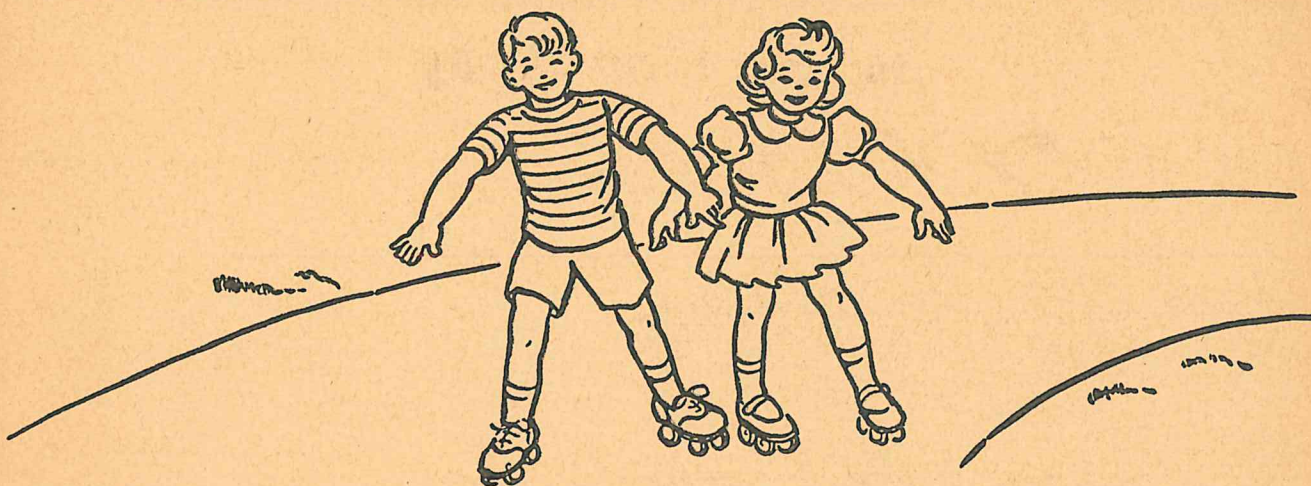
$$3 - 1 = 2$$



$$2 - 1 = 1$$



$$1 - 1 = 0$$



Sue has 2 skates and Bob has 2 skates.

There are _____ skates in all.

Color the picture.

$$2 + 2 = 4$$

$$\begin{array}{r} 2 \\ + 2 \\ \hline 4 \end{array}$$

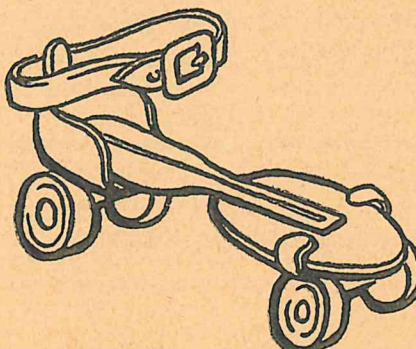
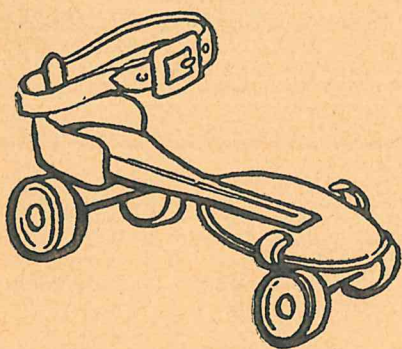
Sue skated away and Bob was left alone.

How many skates were left? 2

4 take away 2 are 2.

$$\begin{array}{r} 4 \\ - 2 \\ \hline 2 \end{array}$$

$$4 - 2 = 2$$



Each skate has 4 wheels.

4 wheels and 4 wheels are 8 wheels.

$$\begin{array}{r} 4 \\ + 4 \\ \hline 8 \end{array}$$

Take one skate away. How many wheels are left? 4

$$\begin{array}{r} 8 \\ - 4 \\ \hline 4 \end{array}$$

8 wheels take away 4 wheels are 4 wheels.

$$2 + 2 = \underline{4} \quad 4 - 2 = \underline{2} \quad 4 + 4 = \underline{8} \quad 8 - 4 = \underline{4} \quad 8 - 0 = \underline{8}$$



Draw 2 eggs in the first nest.

Draw 3 eggs in the second nest.

Now there are 5 eggs in all.

$$2 + 3 = 5$$

$$3 + 2 = 5$$

$$\begin{array}{r} 2 \\ + 3 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 3 \\ + 2 \\ \hline 5 \end{array}$$

**Color the two eggs blue. Color the three eggs yellow.
Color the nest brown.**

Put your hand on the nest with 3 eggs.

How many eggs are left? 2

$$\begin{array}{r} 5 \\ - 3 \\ \hline 2 \end{array}$$

$$5 - 3 =$$

5 eggs take away 3 eggs are 2 eggs.

Now put your hand on the nest with 2 eggs.

How many eggs are left? 3

$$\begin{array}{r} 5 \\ - 2 \\ \hline 3 \end{array}$$

5 eggs take away 2 eggs are 3 eggs.

$$5 - 2 =$$

Pictures to make and problems to do!
This will be fun for your friends and you.



Make 2 red flowers.
Make 3 blue flowers.
3 and 2 are _____



Make 2 yellow stars.
Make 2 orange stars.
2 and 2 are 4

Make 3 brown cookies.
Make 3 pink cookies.
3 and 3 are 6

Make 4 red boats.
Make 4 blue boats.
4 and 4 are 8

Make 2 red cars.
Make 3 green cars.
2 and 3 are 5

Make 5 green trees.
Make 5 brown trees.
5 and 5 are 10

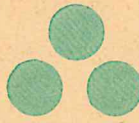
Number Words



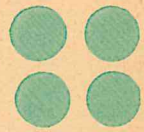
one



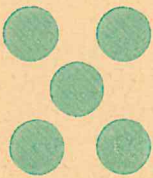
two



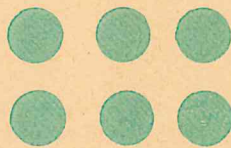
three



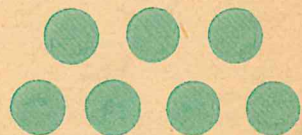
four



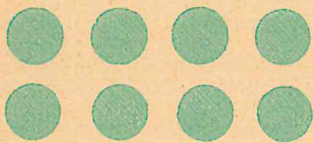
five



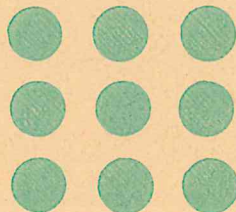
six



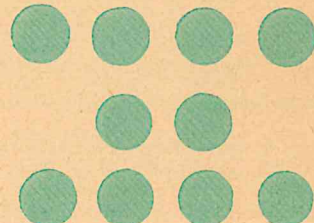
seven



eight



nine



ten

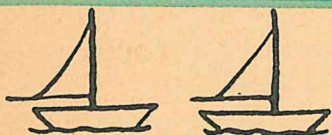
Write the word for each number.

1 one 2 two 3 _____ 4 _____ 5 _____

6 _____ 7 _____ 8 _____ 9 _____ 10 _____

Count the Pictures

How many pictures in each row?
Write the number word, if you know.



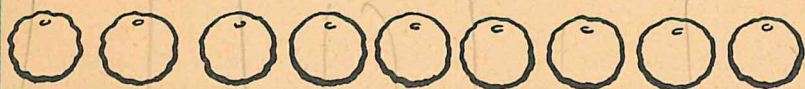
two



four



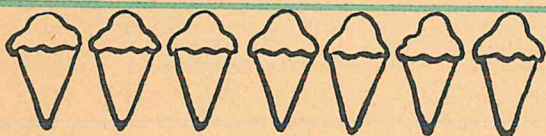
Three



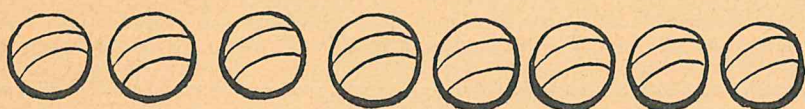
Nine



one



seven



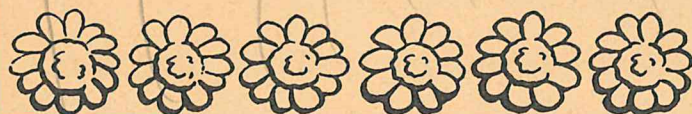
eight



five



ten

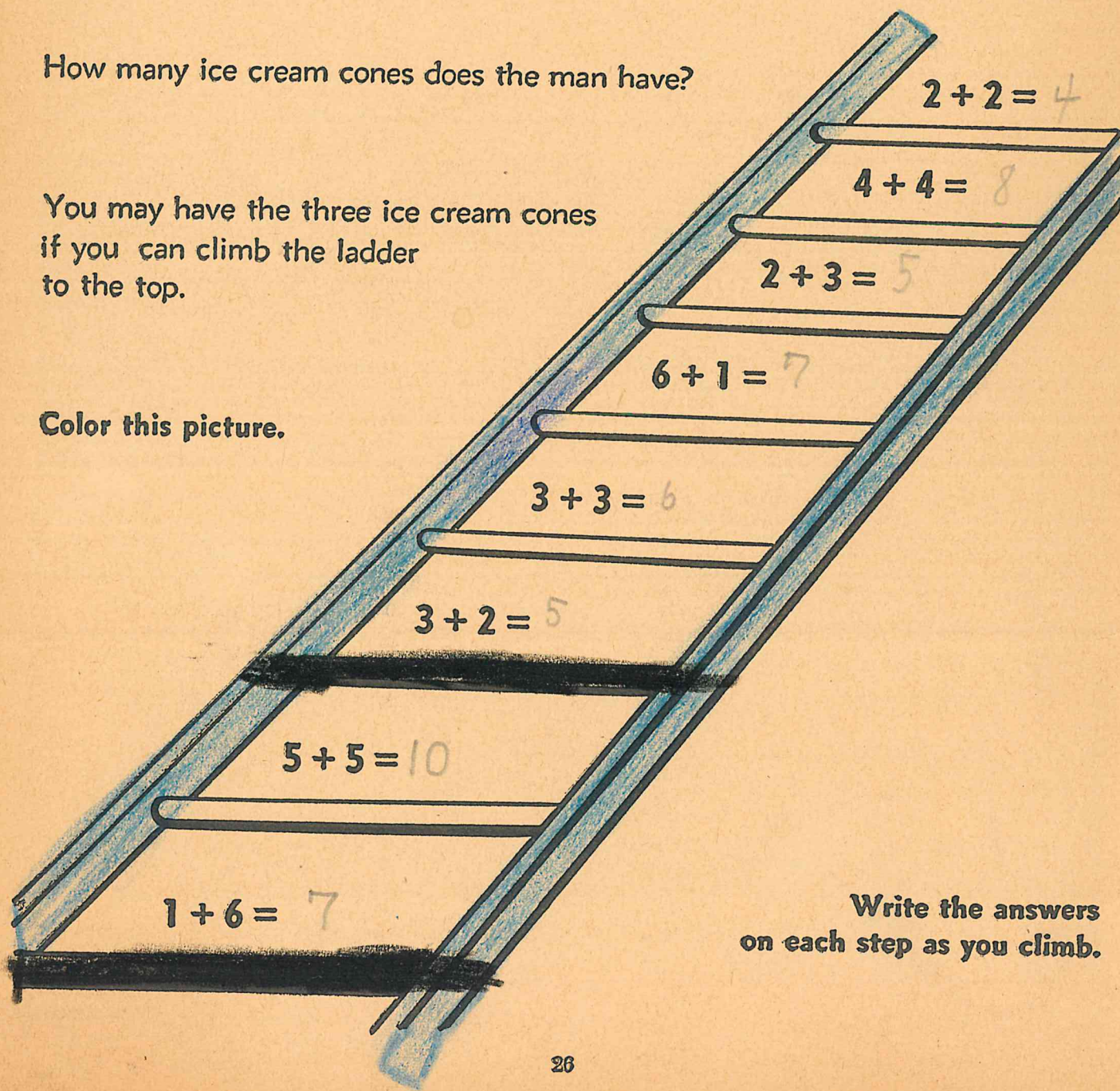




How many ice cream cones does the man have?

You may have the three ice cream cones if you can climb the ladder to the top.

Color this picture.



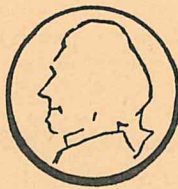
Write the answers on each step as you climb.

Fun With Money



This is a penny.
It is one cent.
It will buy one lollipop.

Draw one big red lollipop.



This is a nickel.
A nickel is five cents.
It will buy five lollipops.

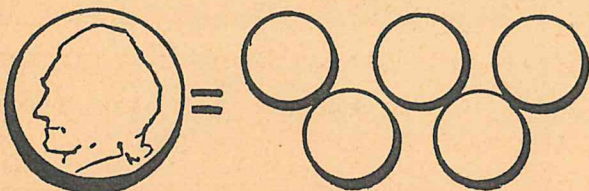
Draw five green lollipops.

This is a dime.
A dime is ten cents.
It will buy ten lollipops.

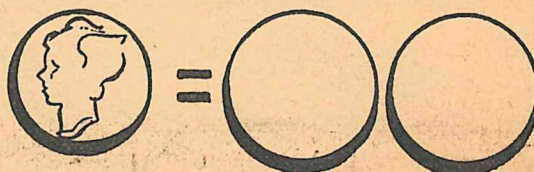


Draw ten orange lollipops.

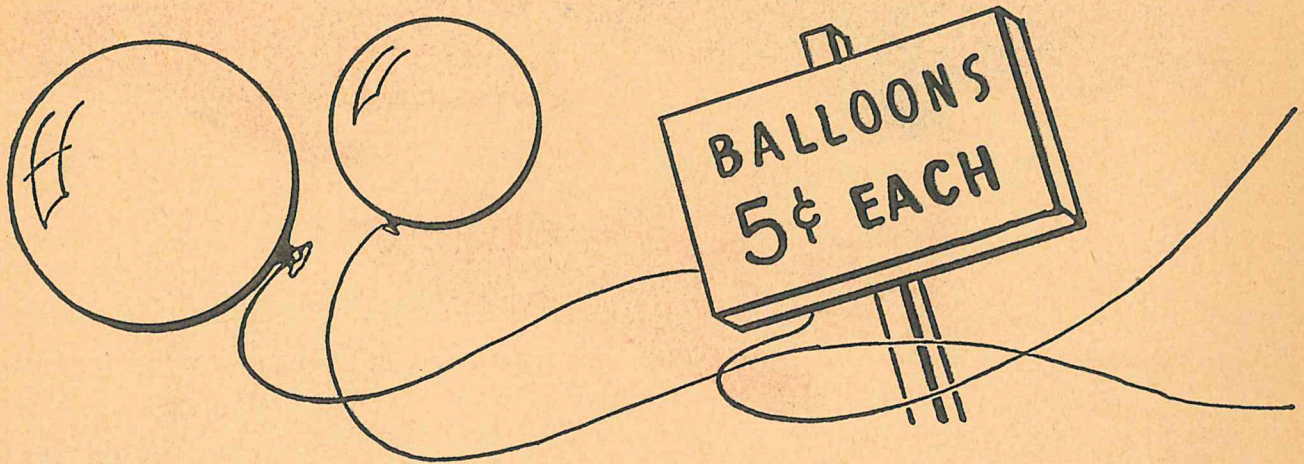
A nickel is the same as
five pennies because it
is five cents.



A dime is the same as ten
pennies or two nickels.



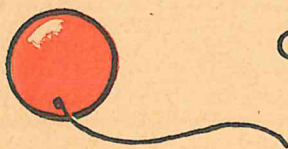
Problems About Money



How many pennies would you need to buy one balloon? 5 pennies.

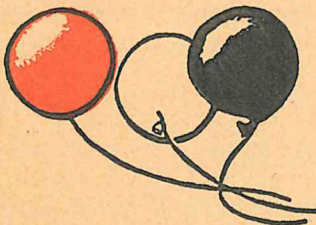
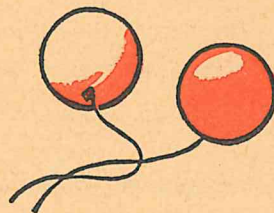
How many nickels would you need to buy one balloon? 1 nickel.

How many dimes would you need to buy two balloons? 1 dime.



One balloon costs 5 cents.

Two balloons cost 10 cents.



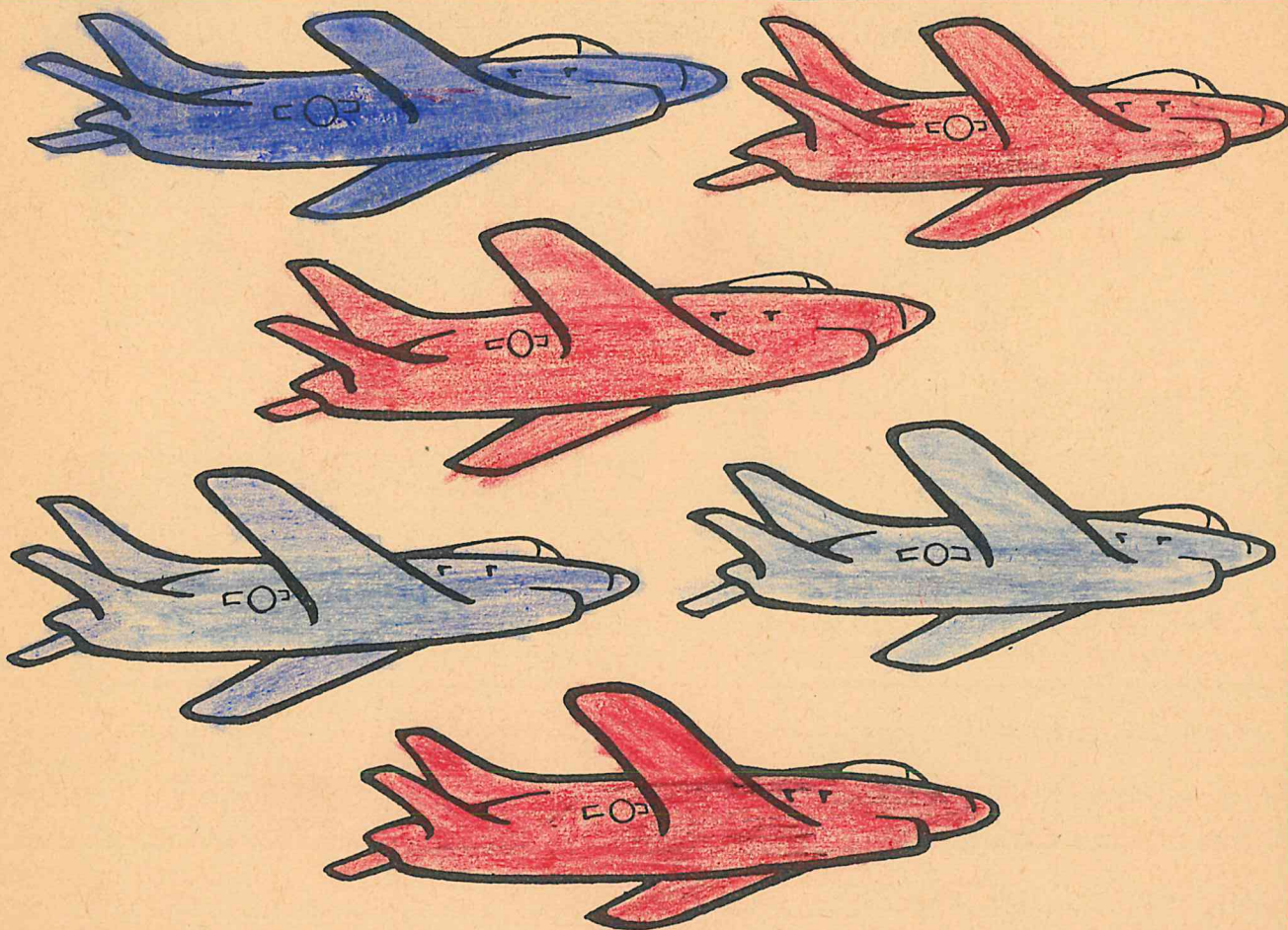
Three balloons cost 15 cents.

Can you count by 5's?

5 10 15 20 25 30 35 40 45 50

Write numbers by 5's.

5 10 15 20 25 30 35



How many airplanes do you see? 6

Yes, there are 6 airplanes.

3 and 3 are 6.

$$3 + 3 = 6$$

$$\begin{array}{r} 3 \\ + 3 \\ \hline 6 \end{array}$$

Color 3 airplanes blue.

Color 3 airplanes red.

Take away 3 airplanes. How many are left? _____

Yes, there are 3 airplanes left.

$$\begin{array}{r} 6 \\ - 3 \\ \hline 3 \end{array}$$

$$6 - 3 = 3$$

Write the answers.

Do you add?

Do you subtract?

$\begin{array}{r} 4 \\ - 2 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ - 2 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ + 2 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ + 1 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ - 3 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ - 2 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ + 4 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ - 1 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ + 3 \\ \hline \end{array}$
---	---	---	---	---	---	---	---	---



Color the two flowers red.

Color the four flowers yellow.

Count all the flowers.

$$\begin{array}{r} 4 \\ + 2 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 2 \\ + 4 \\ \hline 6 \end{array}$$

How many flowers are there? _____

$$2 + 4 = 6$$

$$4 + 2 = 6$$

Put your hand on the four yellow flowers.

How many are left? _____

$$6 - 4 = 2$$

Put your hand on the two red flowers.

How many flowers are left? _____

$$6 - 2 = 4$$

$$6 - 2 =$$

$$6 - 4 =$$

Write the answers.

Do you add?

Do you take away?

$$\begin{array}{r} 2 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 5 \\ \hline \end{array}$$

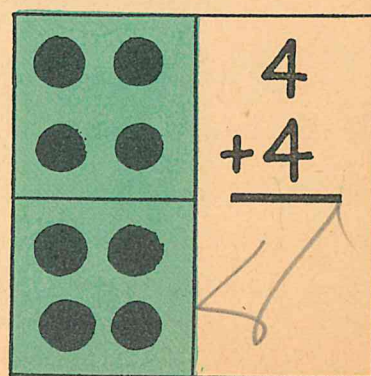
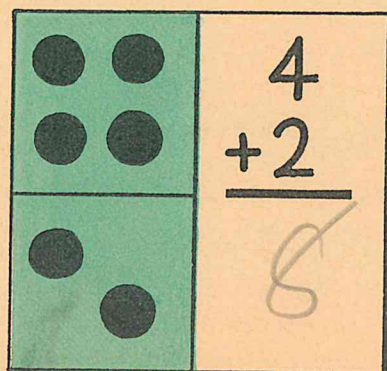
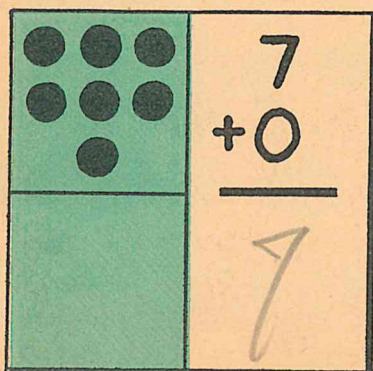
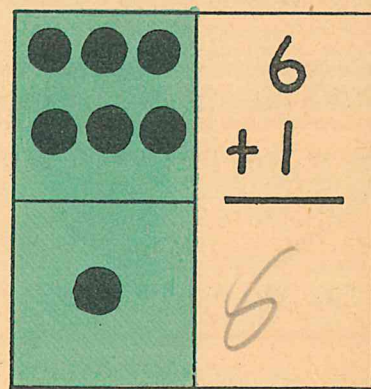
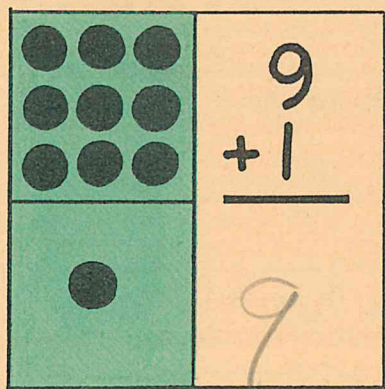
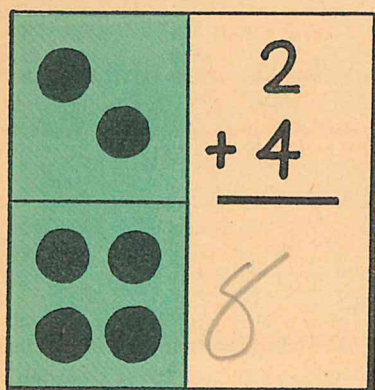
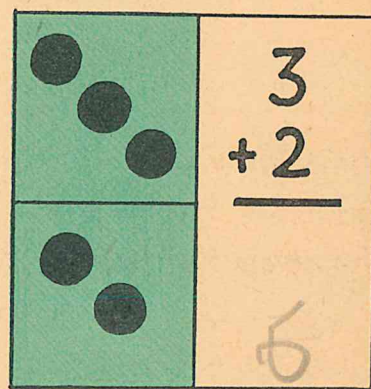
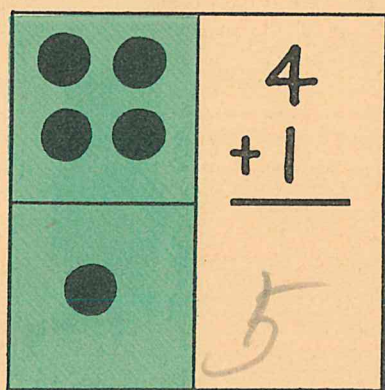
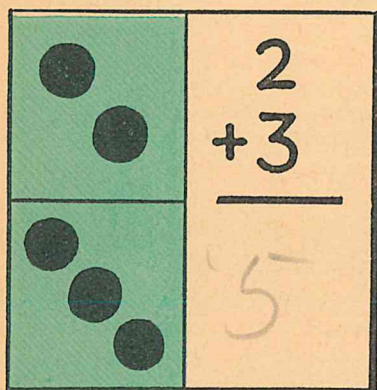
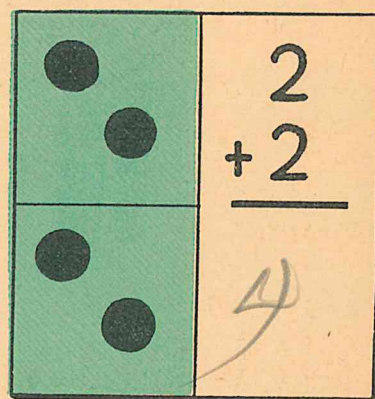
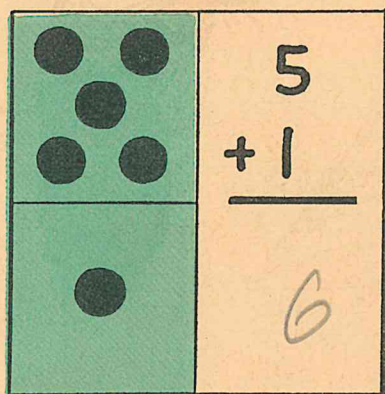
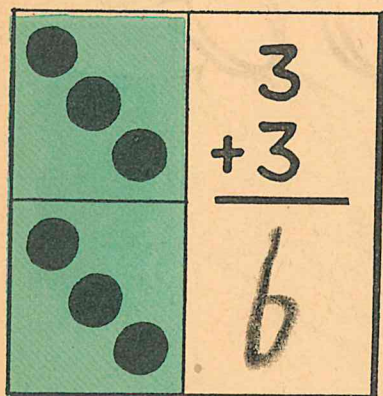
$$\begin{array}{r} 6 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 5 \\ \hline \end{array}$$

Add the numbers.



Here is a game for you to play.

The little lines mean take away.

● ●	6
	-1
	5

● ● ● ● ● ●	6
	-3
	3

● ● ● ● ● ● ●	7
	-0
	7

● ● ● ● ● ●	6
	-2
	4

● ● ● ● ●	5
	-1
	4

● ● ● ● ● ●	4
	-4
	0

● ● ● ● ● ●	6
	-4
	2

● ● ●	3
	-1
	2

● ● ● ● ● ●	6
	-0
	6

● ● ● ● ●	5
	-3
	2

● ● ● ● ● ●	4
	-2
	2

● ● ● ● ●	5
	-2
	3

Make your own ruler and have fun measuring.

Color the candy red and white.

Color the wood yellow.

Color the pencil blue.

Color the rope brown.

This rope is 4 inches long.



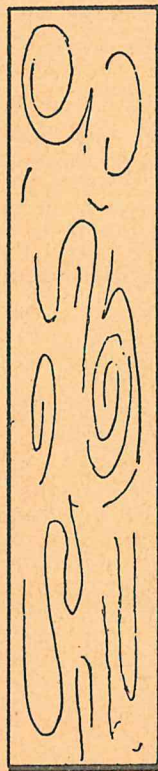
This candy is 6 inches long.



This pencil is 7 inches long.



This piece of wood is 9 inches long.



Cut out your ruler. It is 9 inches long.



Here are some more things for you to measure.

Color the plant yellow and green.

Color the ribbon red.

Do not color the nail.

This is the back of your ruler. Write your name here. _____

This ribbon is 4 inches long.



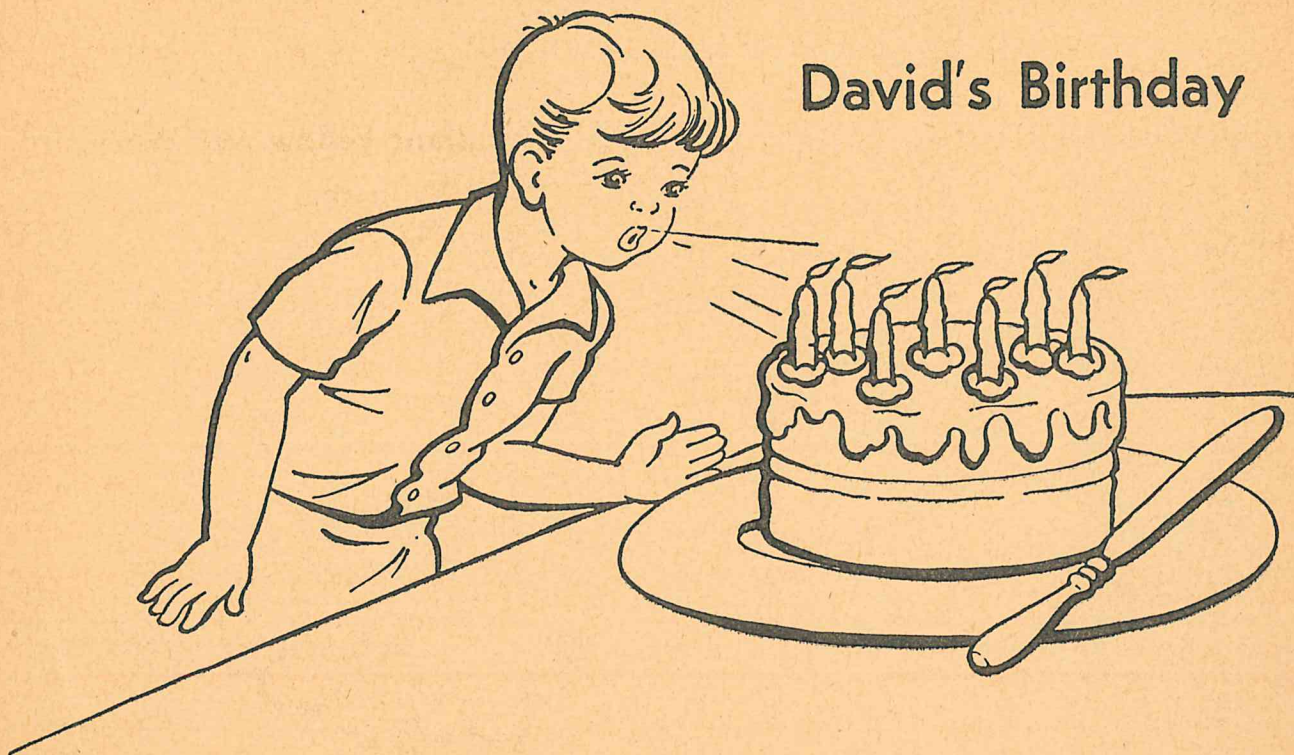
This plant is 8 inches tall.



This nail is 1 inches long.



David's Birthday



Color this picture as you like.

David is seven years old.

There are _____ candles on his cake.

David blew and blew.

Four candles went out.

How many candles did not go out? _____

$$4 + 3 = 7$$

$$3 + 4 = 7$$

$$7 - 4 = 3$$

$$7 - 3 = 4$$

$$\begin{array}{r} 4 \\ + 3 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 3 \\ + 4 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 7 \\ - 4 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 7 \\ - 3 \\ \hline 4 \end{array}$$

Can you write the answers?

Look to see if you add or take away.

$$\begin{array}{r} 3 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 7 \\ \hline \end{array}$$

7

7

0

Counting by Twos Again

1 2 3 4 5 6 7 8 9 10
 11 12 13 14 15 16 17 18 19 20

Write the numbers by twos from 2 to 20.

2 4 6 8 10
12 14 16 18 20

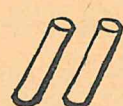
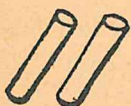
Count the pictures by twos. How many are there?



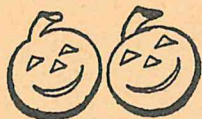
60



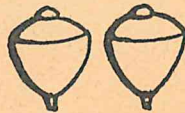
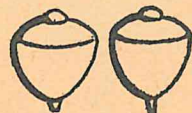
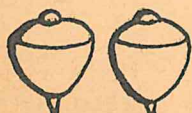
100



120



80



60



Jerry has 4 marbles.
He would like to have 7.
How many more must he have? _____

Draw them.

$$4 + \underline{\quad} = 7$$

Sally's wagon has 3 wheels.
It should have 4 wheels.
How many more does it need? _____

Draw it.

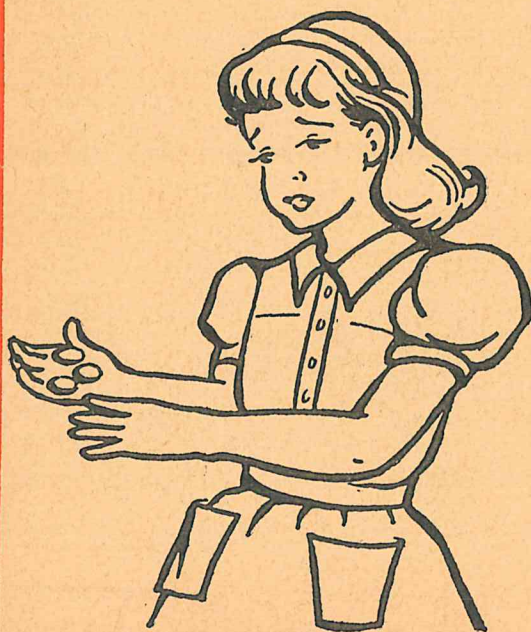
$$3 + \underline{\quad} = 4$$



Cindy wants to ride on the bus.
The bus fare is 5 cents.
She has only 3 cents.
How many more cents does she need? _____

Draw them.

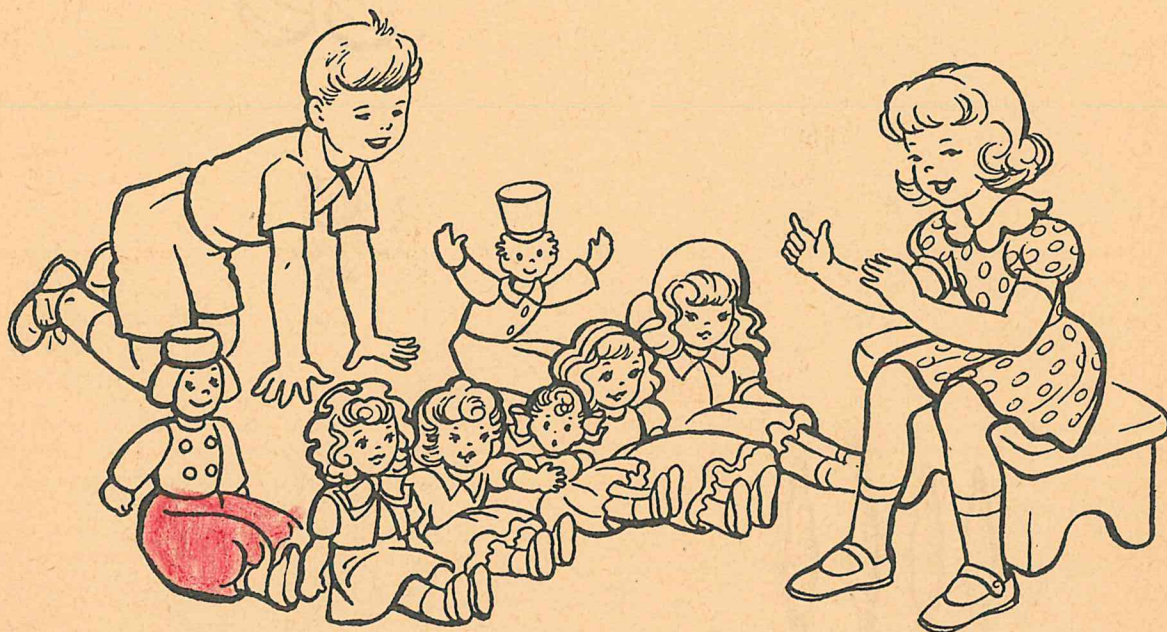
$$3 + \underline{\quad} = 5$$



Color the pictures.

Color all the dolls as you like.

Color Jane and Tom, too.



Jane has 2 boy dolls. She has 5 girl dolls.

$$2 + 5 = 7$$

$$5 + 2 = 7$$

How many dolls has she in all? _____

2 dolls and 5 dolls are _____ dolls.

$$\begin{array}{r} 2 \\ + 5 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 5 \\ + 2 \\ \hline 7 \end{array}$$

Jane gave the 2 boy dolls to Dick.

Then she had _____ dolls left.

$$\begin{array}{r} 7 \\ - 2 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 7 \\ - 5 \\ \hline 2 \end{array}$$

$$7 - 2 = 5$$

$$7 - 5 = 2$$

Write the answers.

$$\begin{array}{r} 2 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 2 \\ \hline \end{array}$$

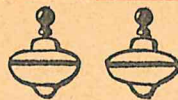
$$\begin{array}{r} 7 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 0 \\ \hline \end{array}$$

3 tops

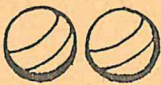


and 2 tops



are ____ tops.

2 balls

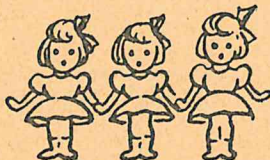


and 3 balls

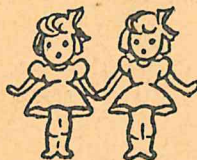


are ____ balls.

3 dolls

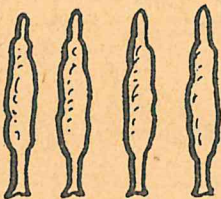


and 2 dolls

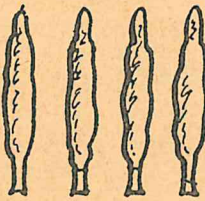


are ____ dolls.

4 trees



and 4 trees

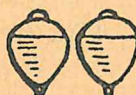


are ____ trees.

5 tops



and 2 tops



are ____ tops.

3 birds



and 3 birds



are ____ birds.

4 stars

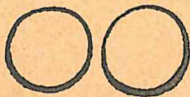


and 3 stars



are ____ stars.

2 dimes

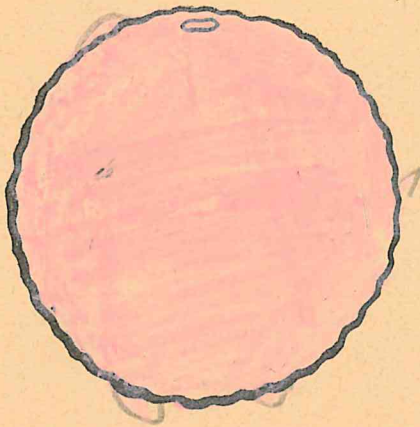


and 3 dimes



are ____ dimes.

Finding Parts of Things



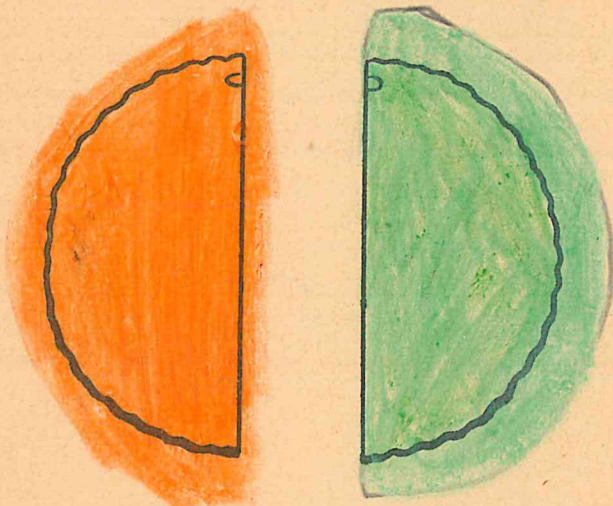
This is a whole orange.

Color it.

Draw a line to cut the orange in half.



Now there are two halves.



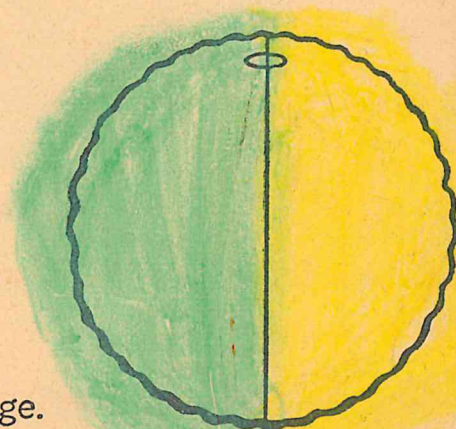
Color the two halves.

We write one half this way.

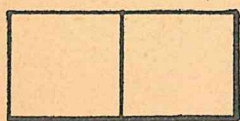
$$\frac{1}{2}$$

Put the two halves together again.

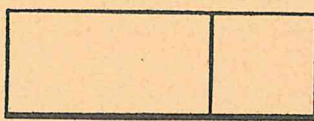
One half orange and one half orange are one orange.



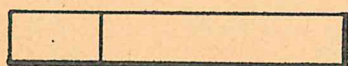
Write yes or no.



one half

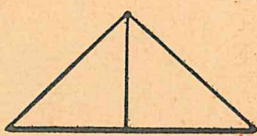


not one half



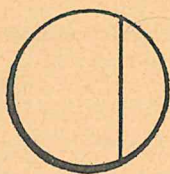
Is this one half?

not



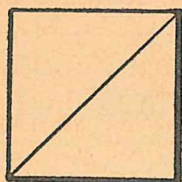
Is this one half?

yes



Is this one half?

not



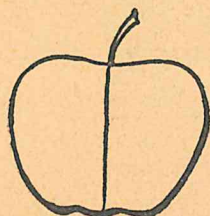
Is this one half?

yes



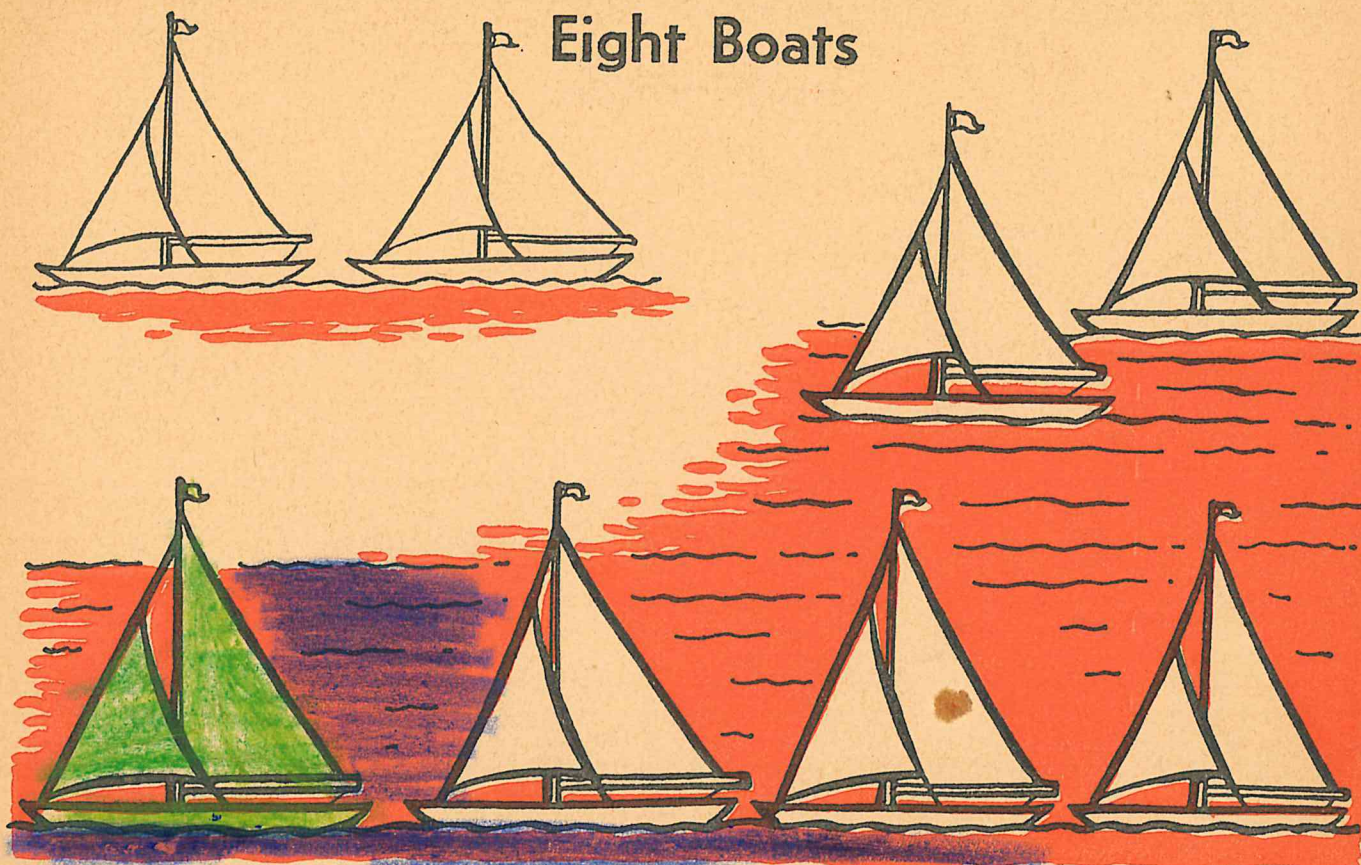
Is this one half?

not



Is this one half?

yes



How many boats do you see? _____

Color the six boats red.

Color the two boats yellow.

$$2 + 6 = 8$$

$$6 + 2 = 8$$

Cover the two yellow boats.

How many boats are left? _____

$$8 - 2 = 6$$

$$\begin{array}{r} 6 \\ + 2 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 2 \\ + 6 \\ \hline 8 \end{array}$$

Cover the six boats.

How many boats are left? _____

$$8 - 6 = 2$$

$$\begin{array}{r} 8 \\ - 2 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 8 \\ - 6 \\ \hline 2 \end{array}$$

Write the answers.

$$\begin{array}{r} 3 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 7 \\ \hline \end{array}$$

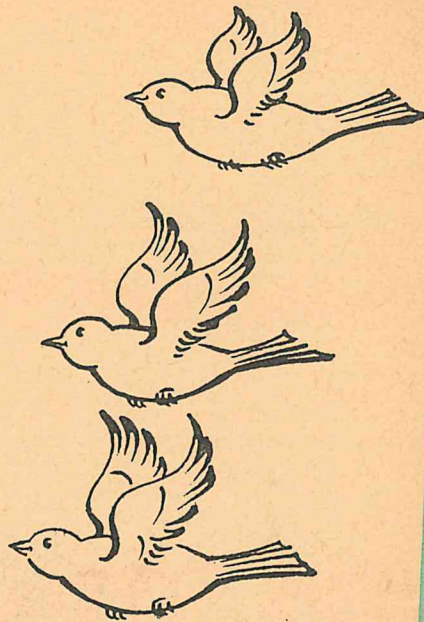
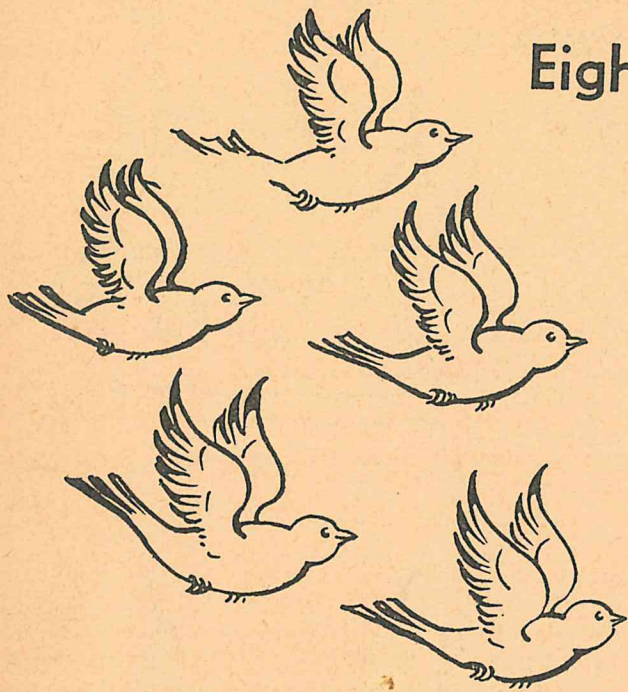
$$\begin{array}{r} 2 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 3 \\ \hline \end{array}$$

Eight Birds



Color 5 birds blue and orange.

Color 3 birds brown and yellow.

Count all the birds. How many are there? _____

How many birds are blue? _____

Put your hand on the 5 blue birds.
How many birds are left? _____

$$\begin{array}{r} 5 \\ + 3 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 3 \\ + 5 \\ \hline 8 \end{array}$$

How many birds are brown? _____

$$\begin{array}{r} 8 \\ - 5 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 8 \\ - 3 \\ \hline 5 \end{array}$$

Put your hand on the 3 brown birds.
How many birds are left? _____

$$\begin{array}{r} 8 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 3 \\ \hline \end{array}$$

Can you write the answers?

$$\begin{array}{r} 3 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 7 \\ \hline \end{array}$$

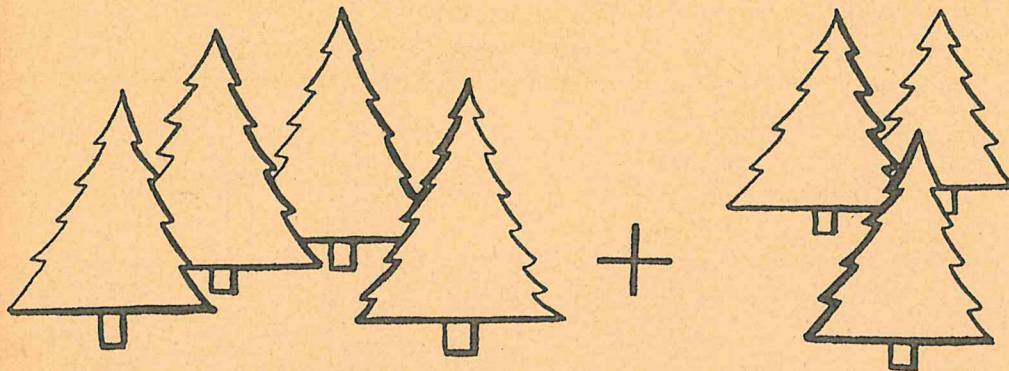
$$\begin{array}{r} 6 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 6 \\ \hline \end{array}$$

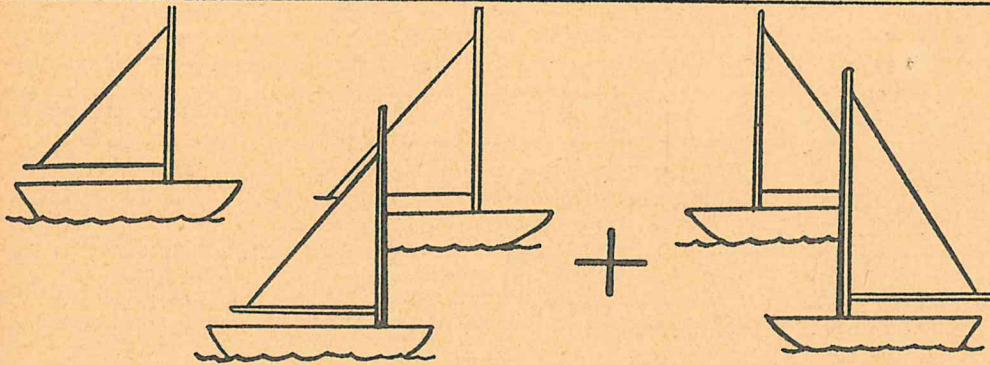
Count the pictures and write the answers.

Color all the pictures.

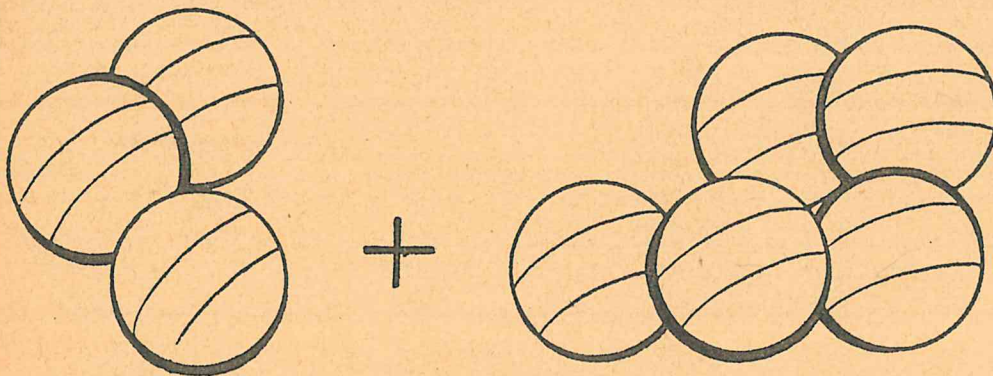
Each picture can have two colors.



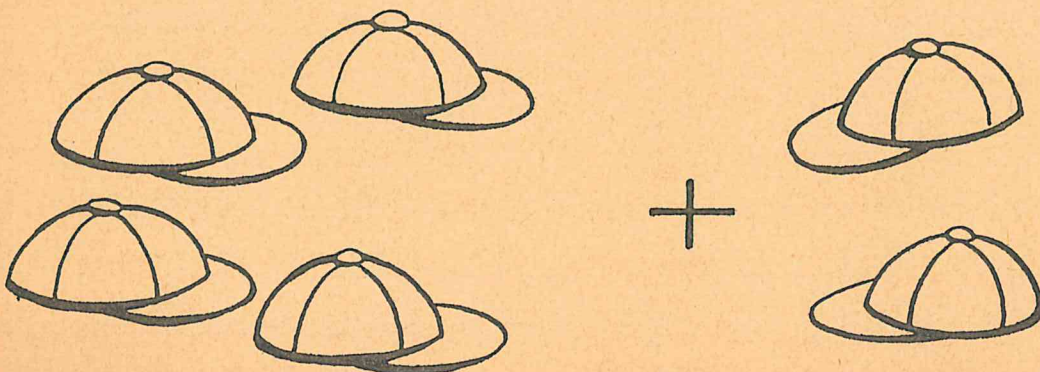
$$\begin{array}{r} 4 \\ + 3 \\ \hline 7 \end{array}$$



$$\begin{array}{r} 3 \\ + 2 \\ \hline 5 \end{array}$$



$$\begin{array}{r} 3 \\ + 5 \\ \hline 8 \end{array}$$



$$\begin{array}{r} 4 \\ + 2 \\ \hline 6 \end{array}$$

More Number Words

one two three four five six seven eight nine ten

Count the dots.

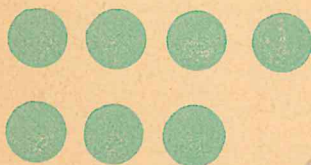
Write the number words.



one



five



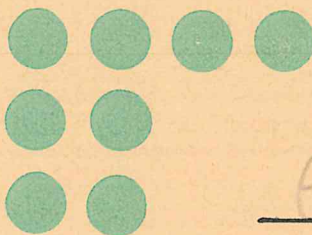
seven



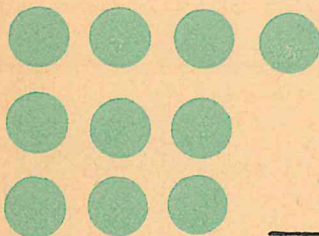
six



two



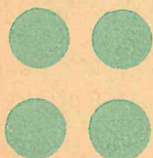
eight



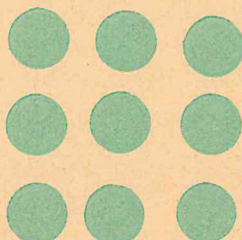
ten



one



four



nine

Let's Count by Fives Again

5 10 15 20 25 30 35 40 45 50
55 60 65 70 75 80 85 90 95 100

Numbers missing from their places?

Write them in the proper places.

1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30	31	32	33
34	35	36	37	38	39	40	41	42	43	44
45	46	47	48	49	50	51	52	53	54	55
56	57	58	59	60	61	62	63	64	65	66
67	68	69	70	71	72	73	74	75	76	77
78	79	80	81	82	83	84	85	86	87	88
89	90	91	92	93	94	95	96	97	98	99

100

5 10 15 20 25
30 35 40 45 50
55 60 65 70 75
80 85 90 95 100

Money Games

Write the number on each line.



A penny is 1 cent.



A nickel is 5 cents.



A dime is 10 cents.

A dime and a nickel are 15 cents.



Two nickels are 10 cents.

Count by fives. 5 and 5 are 10.



Three nickels are 15 cents.

Count by fives. 5 and 5 and 5 are 15.

Count by tens. 10 20 30 40 50 60 70 80 90 100



One dime is 10 cents.

Count by tens.



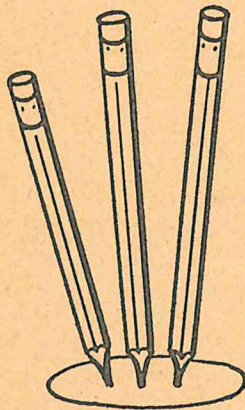
Two dimes are 20 cents.



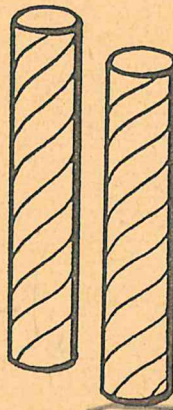
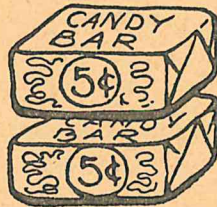
Count by tens.

Three dimes are 30 cents.

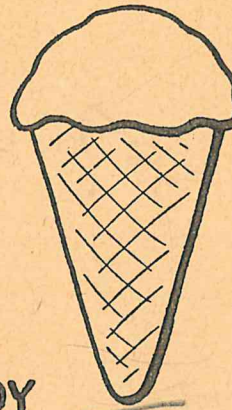
Let's Play Store



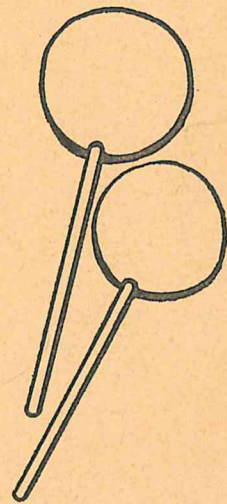
PENCILS
3¢ EACH



STICK CANDY
1¢ EACH



ICE CREAM CONES
5¢ EACH



LOLLIPOPS
1¢ EACH

Kay wants an ice cream cone and a stick of candy.

She will need 6 cents.

$$5 + 1 = 6$$

Nancy wants a pencil and a lollipop.

She will need 4 cents.

$$3 + 1 = 4$$

Color the pictures.

Tom wants a candy bar and an ice cream cone.

He will need 10 cents.

$$5 + 5 = 10$$

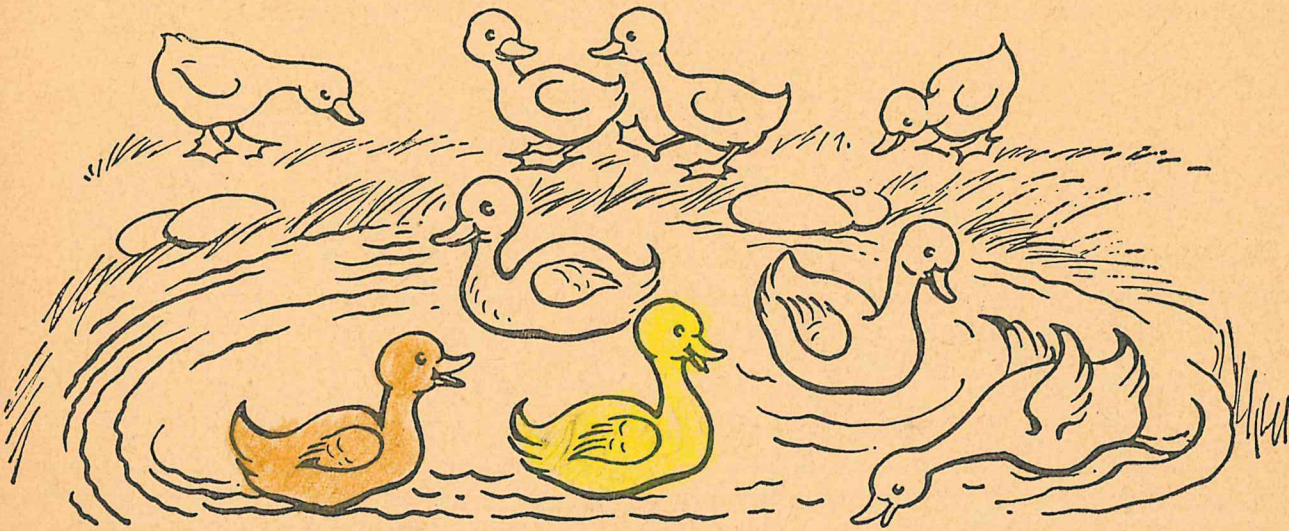
$$\begin{array}{r} 5 \\ + 5 \\ \hline 10 \end{array}$$

Bob wants three candy bars. He will need 15 cents.

Count by fives. 5 and 5 and 5 are 15.

$$\begin{array}{r} 5 \\ 5 \\ + 5 \\ \hline 15 \end{array}$$

Nine Ducks



How many ducks are in the water? 5

Color the picture.

How many ducks are on the grass? 4

How many ducks are there all together? 9

$$\begin{array}{r} 5 \\ + 4 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 4 \\ + 5 \\ \hline 9 \end{array}$$

$$5 + 4 = 9$$

$$4 + 5 = 9$$

Cover the four ducks on the grass.

How many ducks do you see now? 5

$$9 - 4 = 5$$

$$\begin{array}{r} 9 \\ - 4 \\ \hline 5 \end{array}$$

Cover the five ducks in the water.

How many ducks do you see now? 4

$$9 - 5 = 4$$

$$\begin{array}{r} 9 \\ - 5 \\ \hline 4 \end{array}$$

Add

Take away

$$\begin{array}{r} 4 \\ + 5 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 5 \\ + 4 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 1 \\ + 8 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 9 \\ + 0 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 9 \\ - 4 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 9 \\ - 5 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 9 \\ - 0 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 9 \\ - 1 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 9 \\ - 9 \\ \hline 0 \end{array}$$



How many children do you see? _____

How many children are running? _____

How many children are walking? _____

$$\begin{array}{r} 7 \\ + 2 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 2 \\ + 7 \\ \hline 9 \end{array}$$

$$2 + 7 = 9 \quad 7 + 2 = 9$$

Put your hand on the two that are walking.

How many do you see now? _____

$$9 - 7 = 2$$

Put your hand on the seven that are running.

How many children are left? _____

$$9 - 2 = 7$$

Add $7 + 2 =$

$4 + 5 =$

$3 + 5 =$

$2 + 7 =$

$6 + 2 =$

Take away $9 - 2 =$

$9 - 1 =$

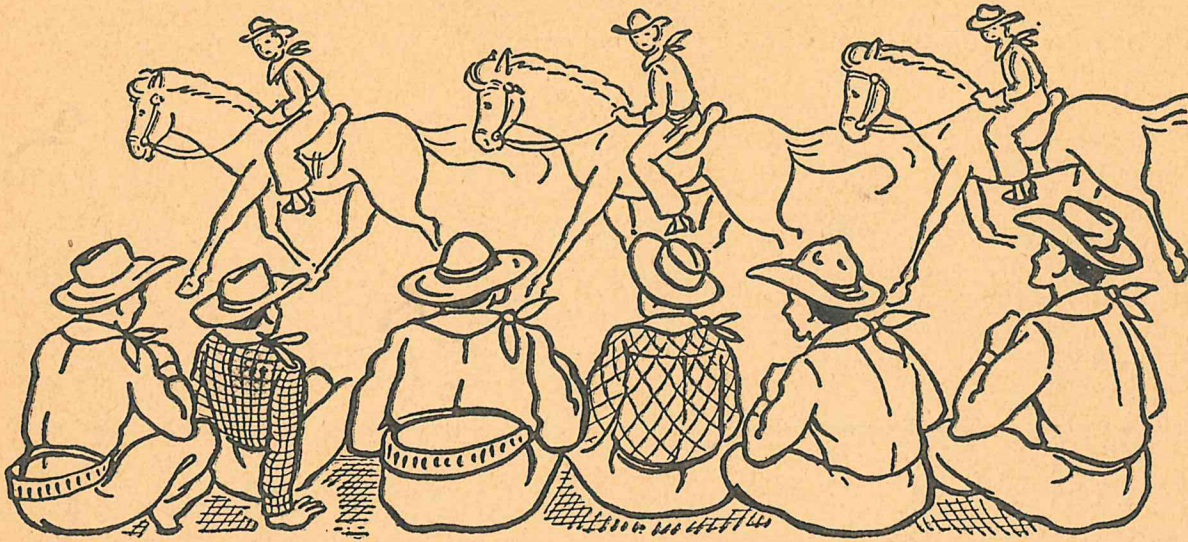
$9 - 7 =$

$9 - 5 =$

$9 - 0 =$

Color the picture.

Nine Cowboys



How many cowboys are riding horses? _____

Color the picture.

How many cowboys are not riding? _____

$$\begin{array}{r} 3 \\ + 6 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 6 \\ + 3 \\ \hline 9 \end{array}$$

How many cowboys are there all together? _____

$$6 + 3 = 9$$

$$3 + 6 = 9$$

Cover the three cowboys on the horses.

$$\begin{array}{r} 9 \\ - 3 \\ \hline 6 \end{array}$$

How many cowboys do you see now? _____

Cover the six cowboys on the ground.

$$\begin{array}{r} 9 \\ - 6 \\ \hline 3 \end{array}$$

How many cowboys are left? _____

$$9 - 6 = 3$$

$$9 - 3 = 6$$

Take away

$$\begin{array}{r} 9 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 6 \\ \hline \end{array}$$

Add

$$\begin{array}{r} 3 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 4 \\ \hline \end{array}$$

Draw more pictures to make nine in each row.

					2	
3						
		4				
			5			
	6					
				7		
						8
3 + 6 9						

Writing numbers from 100 to 134. Can you do it?

100	107	114	121	128
101	108	115	122	129
102	109	116	123	130
103	110	117	124	131
104	111	118	125	132
105	112	119	126	133
106	113	120	127	134

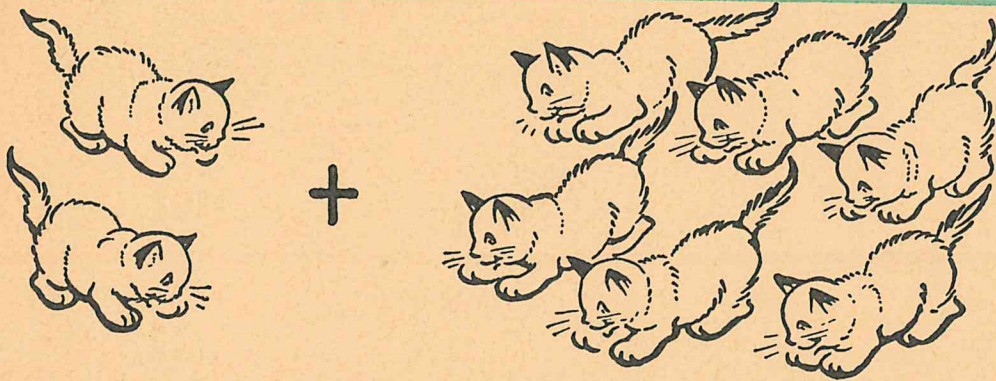
Put in the missing numbers.

103	104	—	106	107	108	109	110
111	112	113	114	—	116	117	—
120	—	122	123	—	125	126	127
131	132	—	134	135	—	137	138
137	138	139	—	141	142	—	144
143	144	145	146	—	148	149	—
151	152	—	154	155	—	157	158
164	165	—	167	168	—	170	171

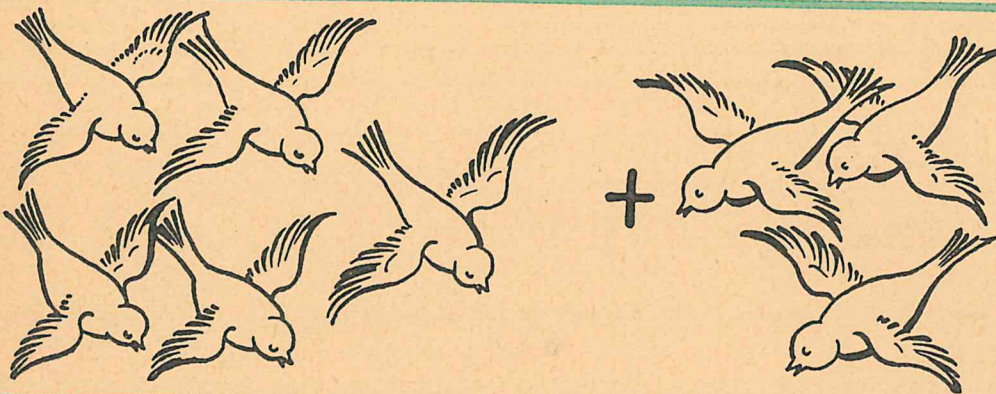
Count the pictures and write the answers.

Color all the pictures.

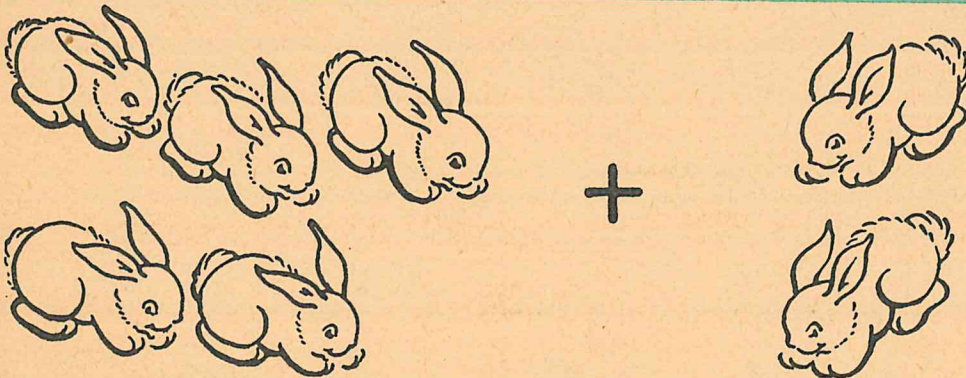
Each picture can have two colors.



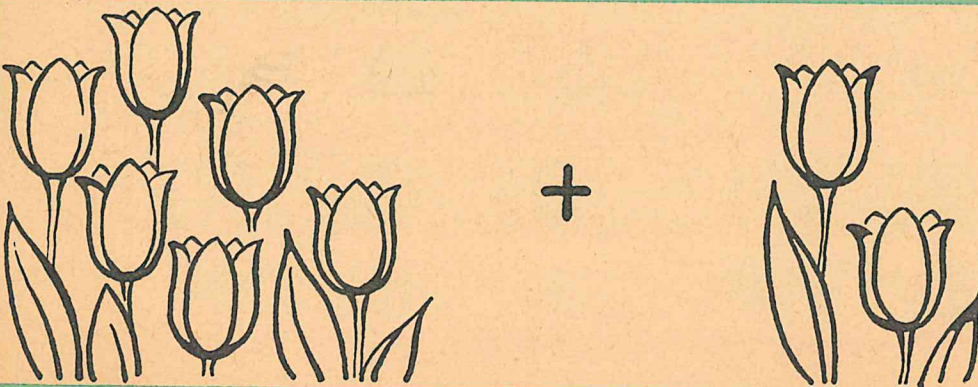
$$\begin{array}{r} 2 \\ +6 \\ \hline 8 \end{array}$$



$$\begin{array}{r} 5 \\ +3 \\ \hline 8 \end{array}$$



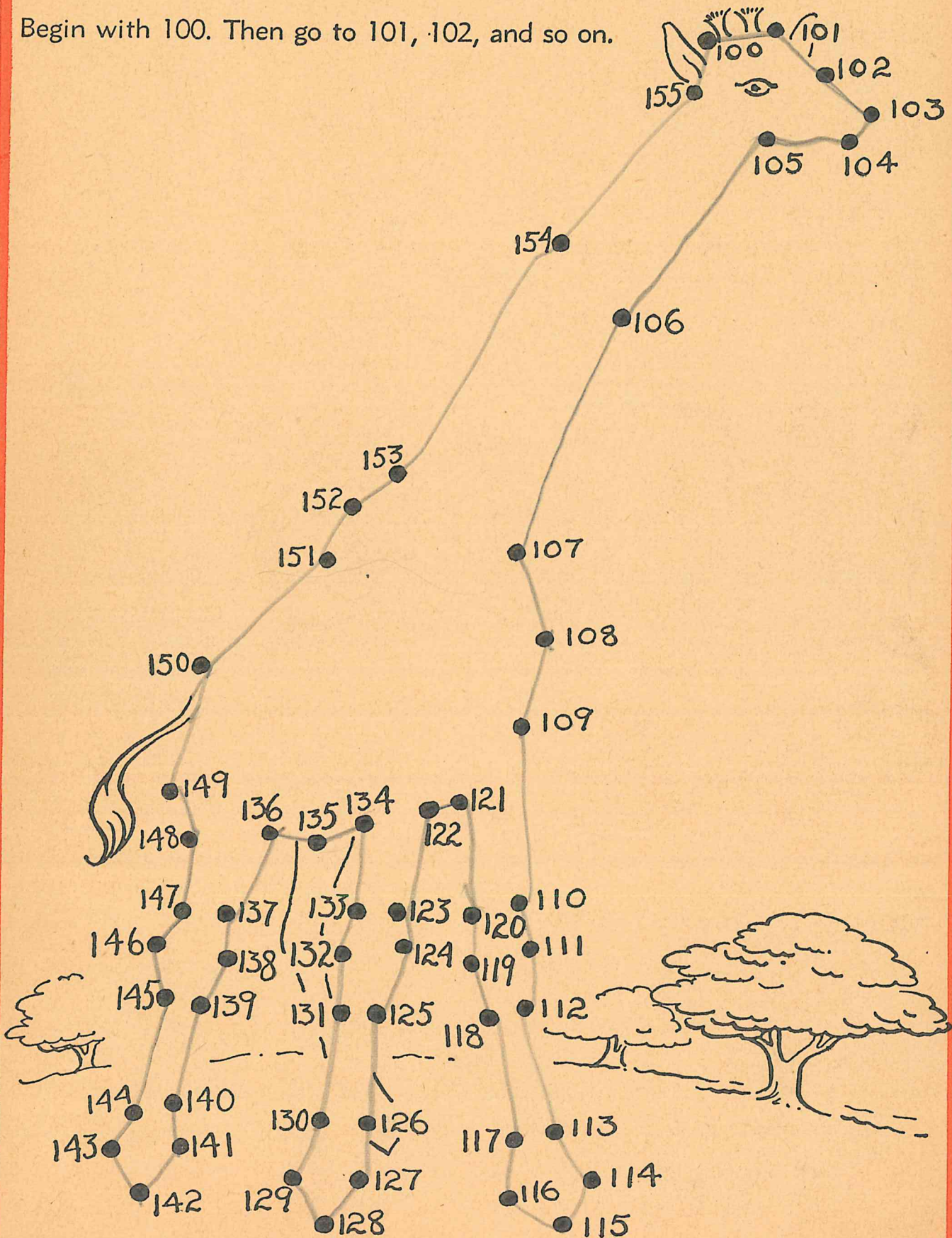
$$\begin{array}{r} 5 \\ +2 \\ \hline 7 \end{array}$$



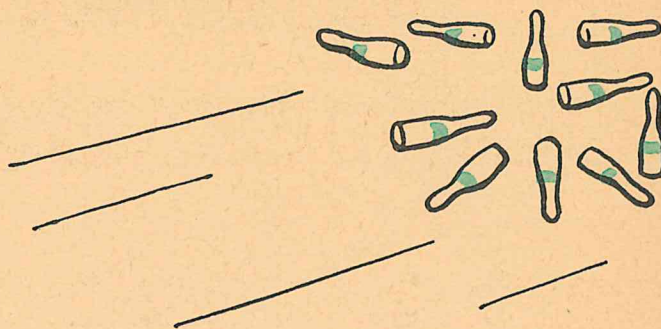
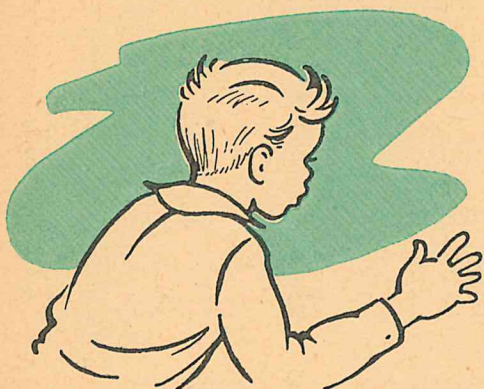
$$\begin{array}{r} 6 \\ +2 \\ \hline 8 \end{array}$$

Follow the Dots

Begin with 100. Then go to 101, 102, and so on.



Betty, Dick, and Jack played tenpins.

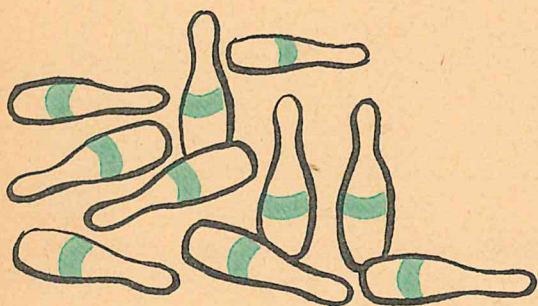


Dick played first. How many did he knock down? _____

How many are still up? _____

$$8 + 2 = 10$$

$$2 + 8 = 10$$

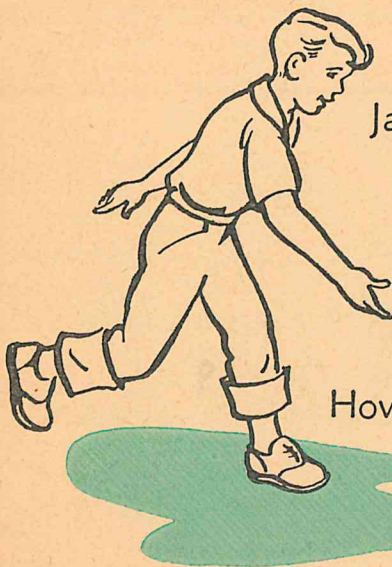


Betty played next. How many did she knock down? _____

How many are still up? _____

$$7 + 3 = 10$$

$$3 + 7 = 10$$

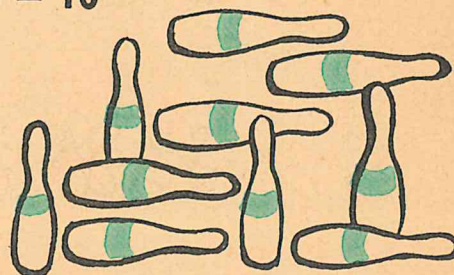


Jack played last. How many did he knock down? _____

$$6 + 4 = 10$$

$$4 + 6 = 10$$

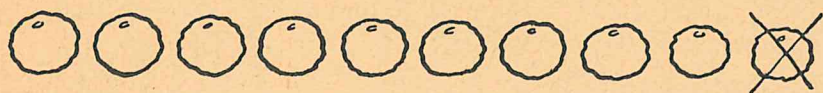
How many are still up? _____



Who won the game? _____

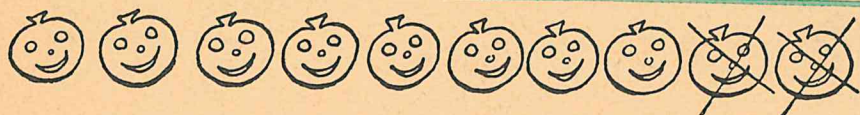
Now color the pictures.

Take Something Away From Ten



$10 - 1 =$

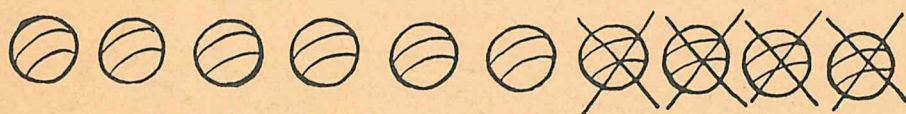
9



$10 - 2 =$



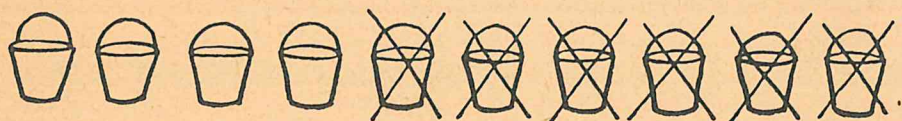
$10 - 3 =$



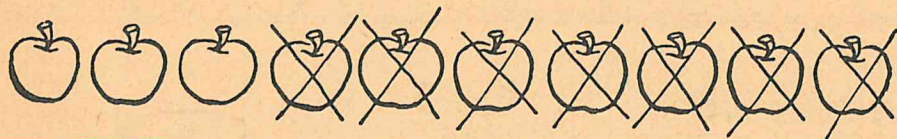
$10 - 4 =$



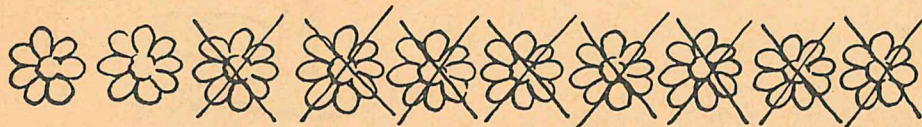
$10 - 5 =$



$10 - 6 =$



$10 - 7 =$



$10 - 8 =$



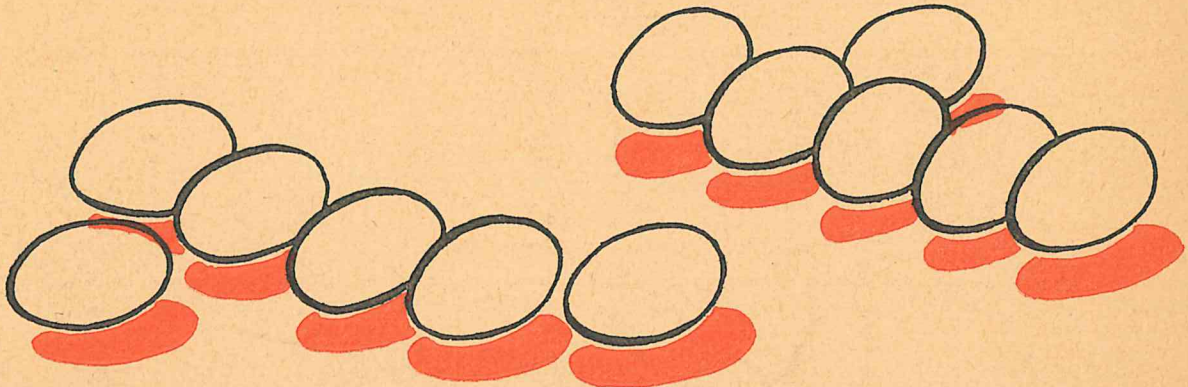
$10 - 9 =$

What Is a Dozen?

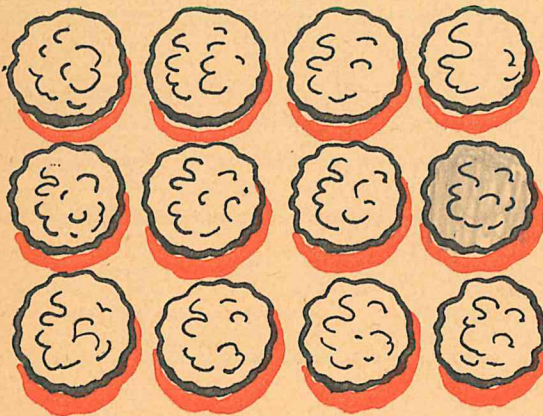
A dozen of anything is twelve.

A half dozen is six.

Here are a dozen eggs. How many are there? 12



Cover half the eggs. How many do you see now? 6



How many cookies do you see? 12

Color half the cookies brown.

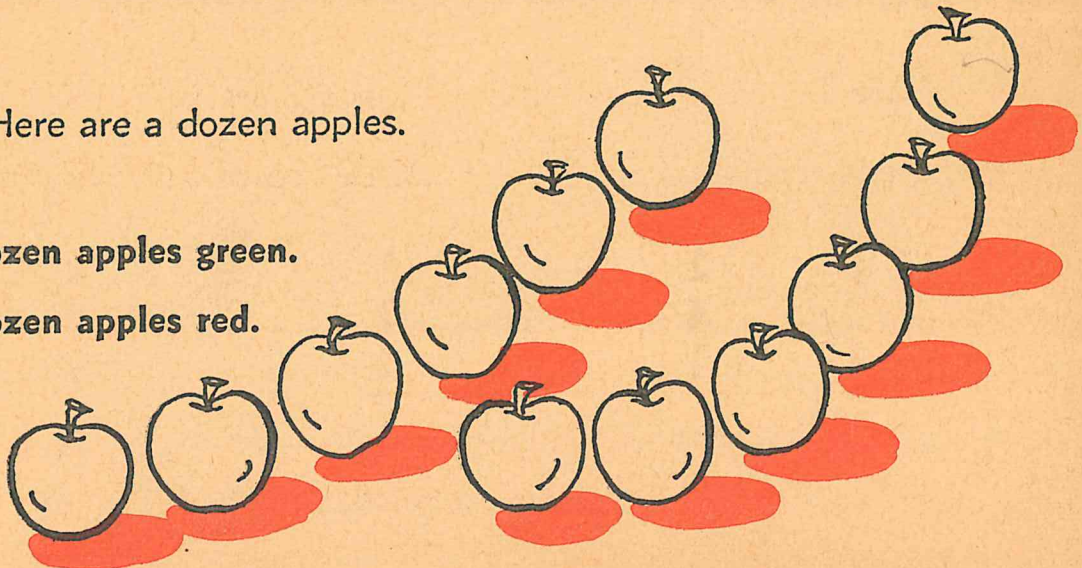
Now there are a half dozen brown cookies.

How many cookies are not brown? 6

Here are a dozen apples.

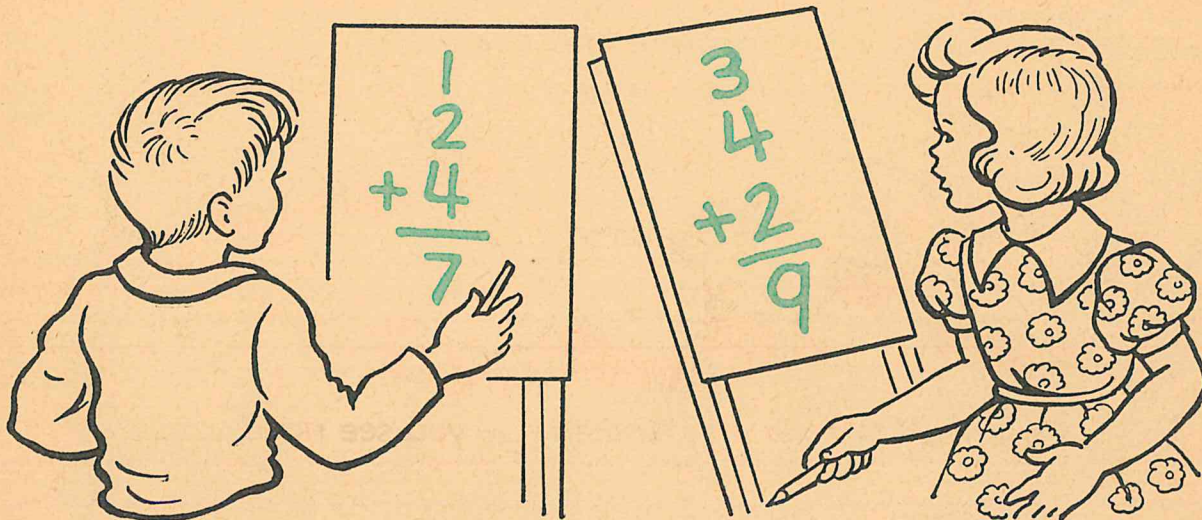
Color a half-dozen apples green.

Color a half-dozen apples red.



Adding Three Numbers

Column addition is lots of fun.
This page will show you how it's done.
Start at the top and add as you go.
That's all it is. And now you know.



Billy and Nancy can do this. Can you do it?

Look at the first two numbers on Billy's blackboard.

1 and 2 are 3. Now add the third number to it.

3 and 4 are 7. Do it again. 1 and 2 are 3 and 4 more make 7.

Look at the first two numbers on Nancy's blackboard.

3 and 4 are 7. Now add the 2. 7 and 2 are 9.

Can you add these numbers? Begin at the top of each column.

2	4	2	3	2	3	4	3	3
3	3	4	2	2	3	2	4	3
+ 2	+ 1	+ 1	+ 2	+ 2	+ 2	+ 2	+ 2	+ 3

Isn't column addition fun?

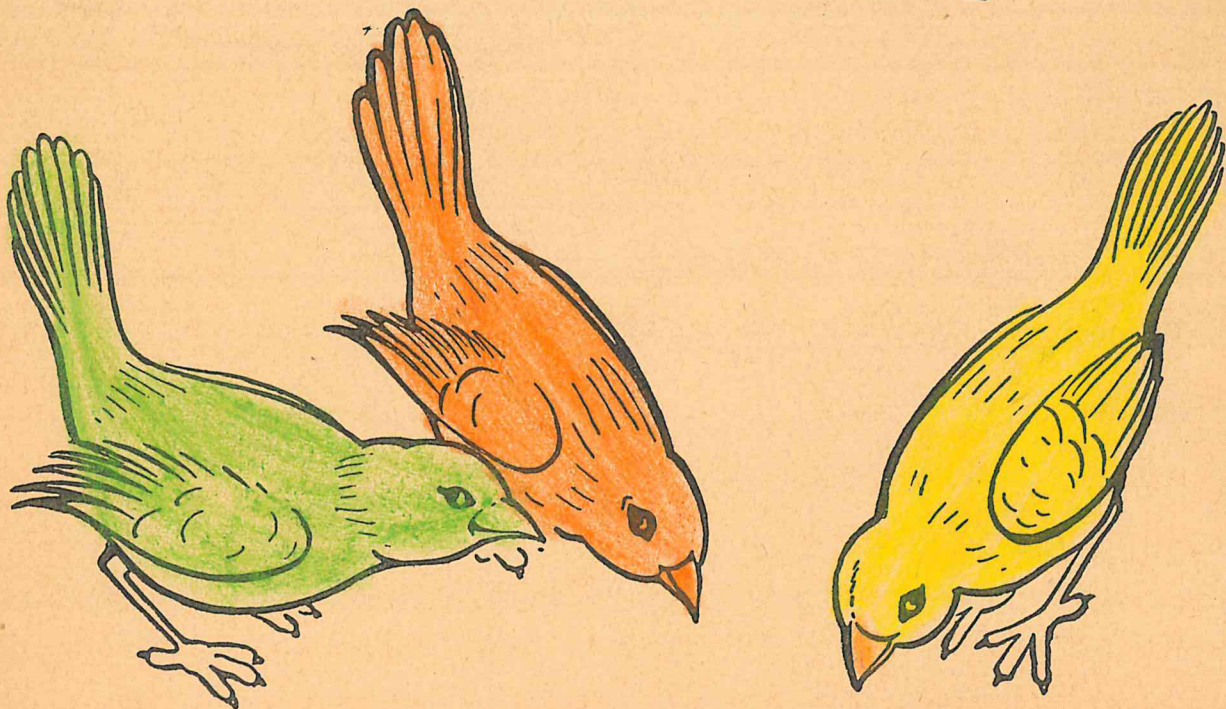
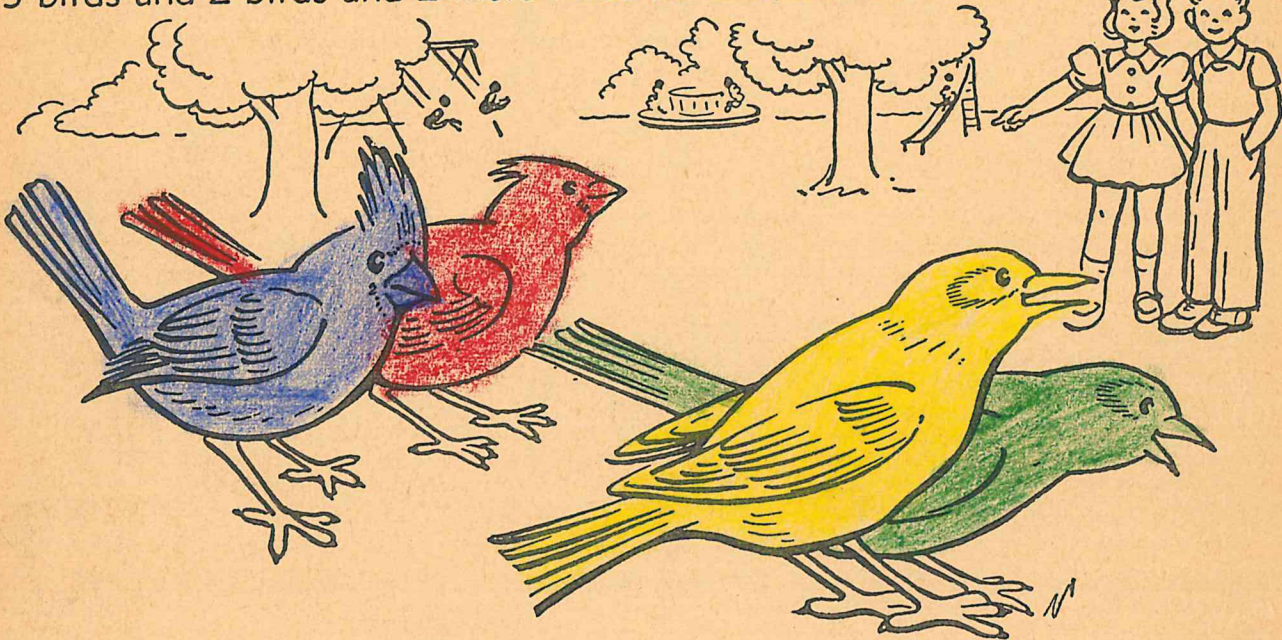
In the Park

Nancy and Bob went to the park to look for birds.
They saw three robins. They saw two bluebirds.
Then they saw two cardinals.

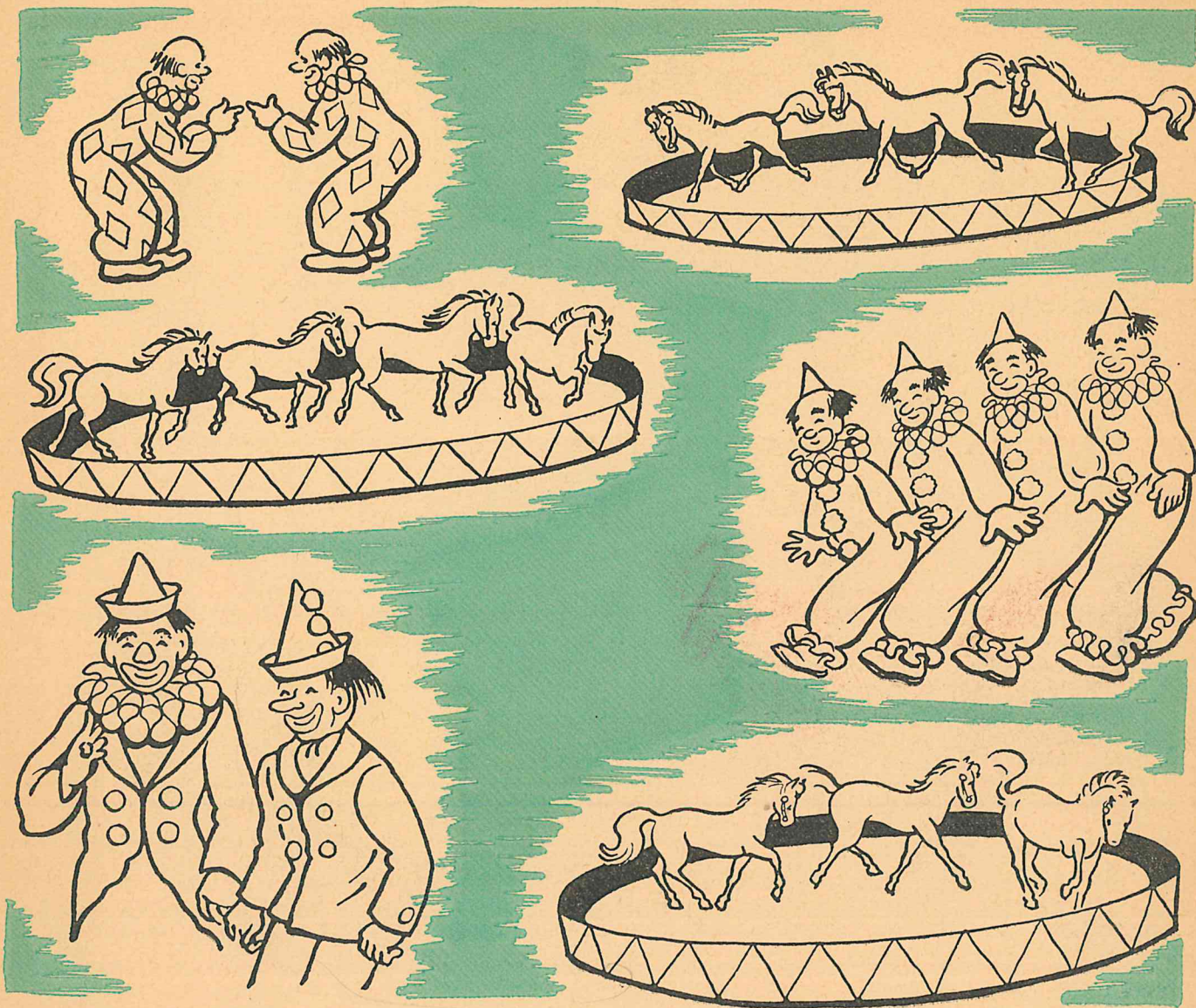
$$\begin{array}{r} 3 \\ 2 \\ + 2 \\ \hline \end{array}$$

How many birds did they see in the park? 7

3 birds and 2 birds and 2 more birds are 7 birds.



Color the park, the children, and the birds.



How many ponies in the first ring? 4

How many ponies in the second ring? 3

How many ponies in the third ring? 3

How many ponies in all? 10

3 ponies and 4 ponies and 3 more ponies are 10 ponies.

How many clowns have big hats? 2

How many clowns have little hats? 4

How many have no hats at all? 2

How many clowns are there all together? 8

2 and 4 and 2 are 8.

$$\begin{array}{r} 3 \\ 4 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ 4 \\ + 2 \\ \hline \end{array}$$

More Story Problems

Tuffy and Muffy were drinking milk.

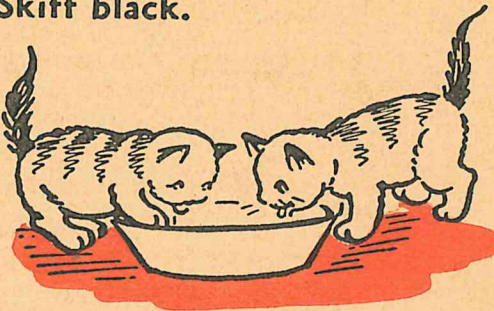
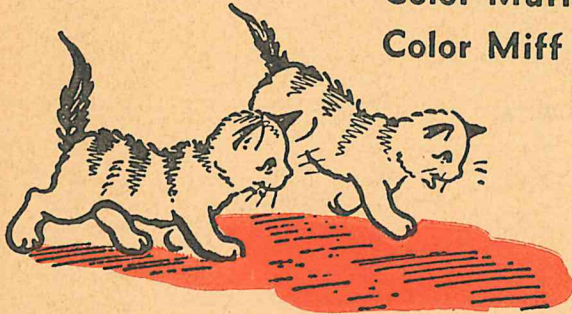
Along came Miff and Skiff.

How many kittens were there then? 4

$$\begin{array}{r} 2 \\ + 2 \\ \hline \end{array}$$

Color Muffy and Tuffy orange.

Color Miff and Skiff black.



Dick had six little airplanes.

He saved his money and bought two big airplanes.

How many airplanes did he have then? 8

$$\begin{array}{r} 6 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 6 \\ \hline \end{array}$$



Color the six airplanes blue.

Color the two airplanes red.

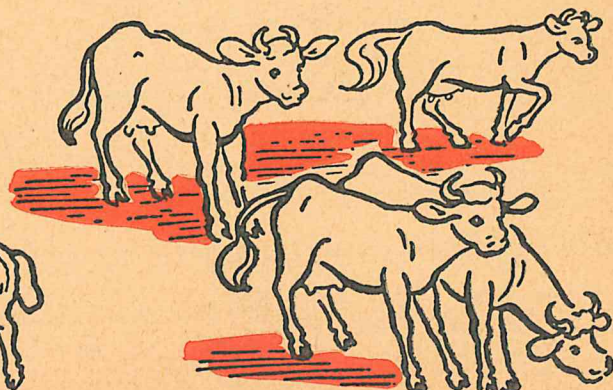
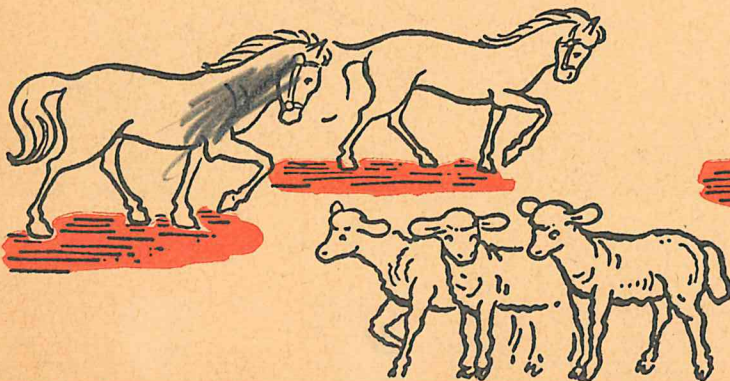


A farmer had two horses.

He had three sheep and four cows.

How many animals did he have? 9

$$\begin{array}{r} 2 \\ 3 \\ + 4 \\ \hline \end{array}$$



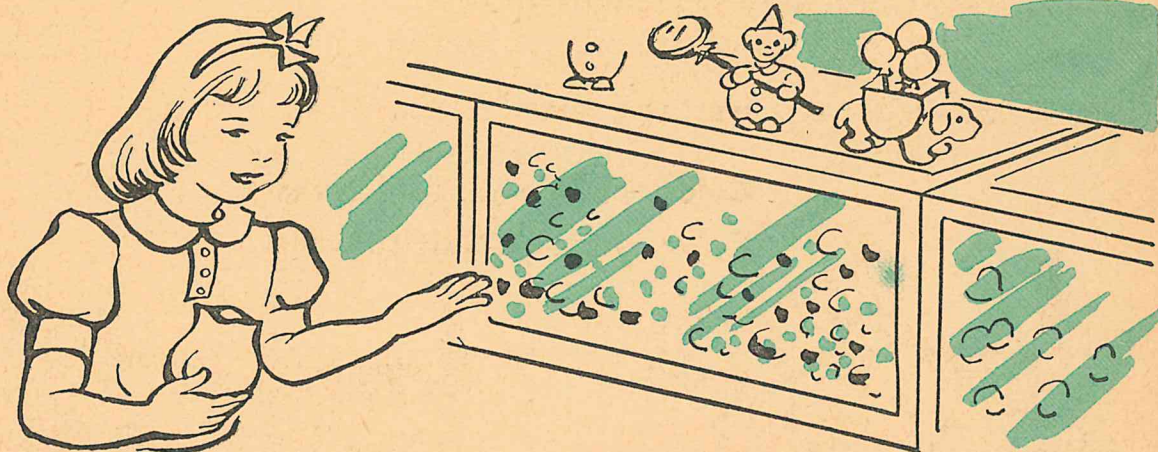
Sue had ten cents.

She spent 6 cents for candy.

How many cents did she have left? _____

$$\begin{array}{r} 10 \\ - 6 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 10 \\ - 4 \\ \hline 6 \end{array}$$



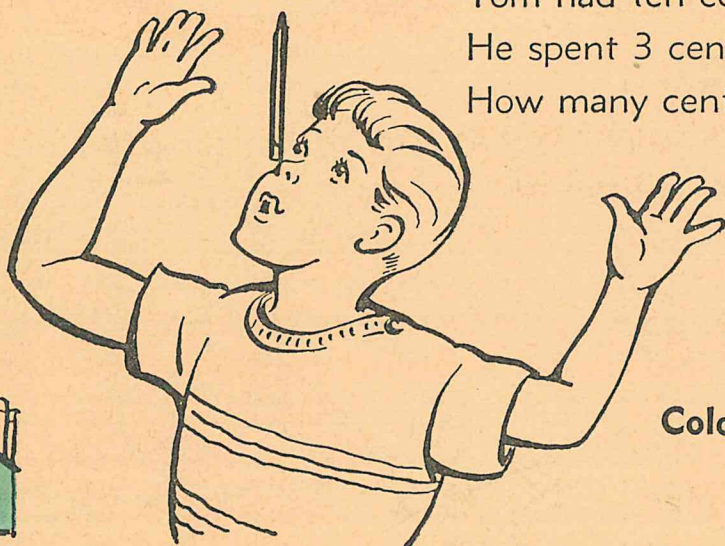
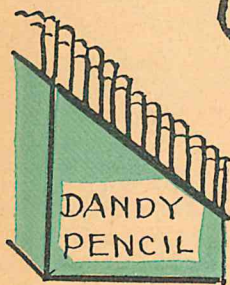
Tom had ten cents.

He spent 3 cents for a pencil.

How many cents did he have left? _____

$$\begin{array}{r} 10 \\ - 3 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 10 \\ - 7 \\ \hline 3 \end{array}$$



Color all the pictures.

Bob had ten cents.

He spent 8 cents for a top.

How many cents did he have left? _____

$$\begin{array}{r} 10 \\ - 8 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 10 \\ - 2 \\ \hline 8 \end{array}$$

Take away

$$\begin{array}{r} 10 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 2 \\ \hline \end{array}$$



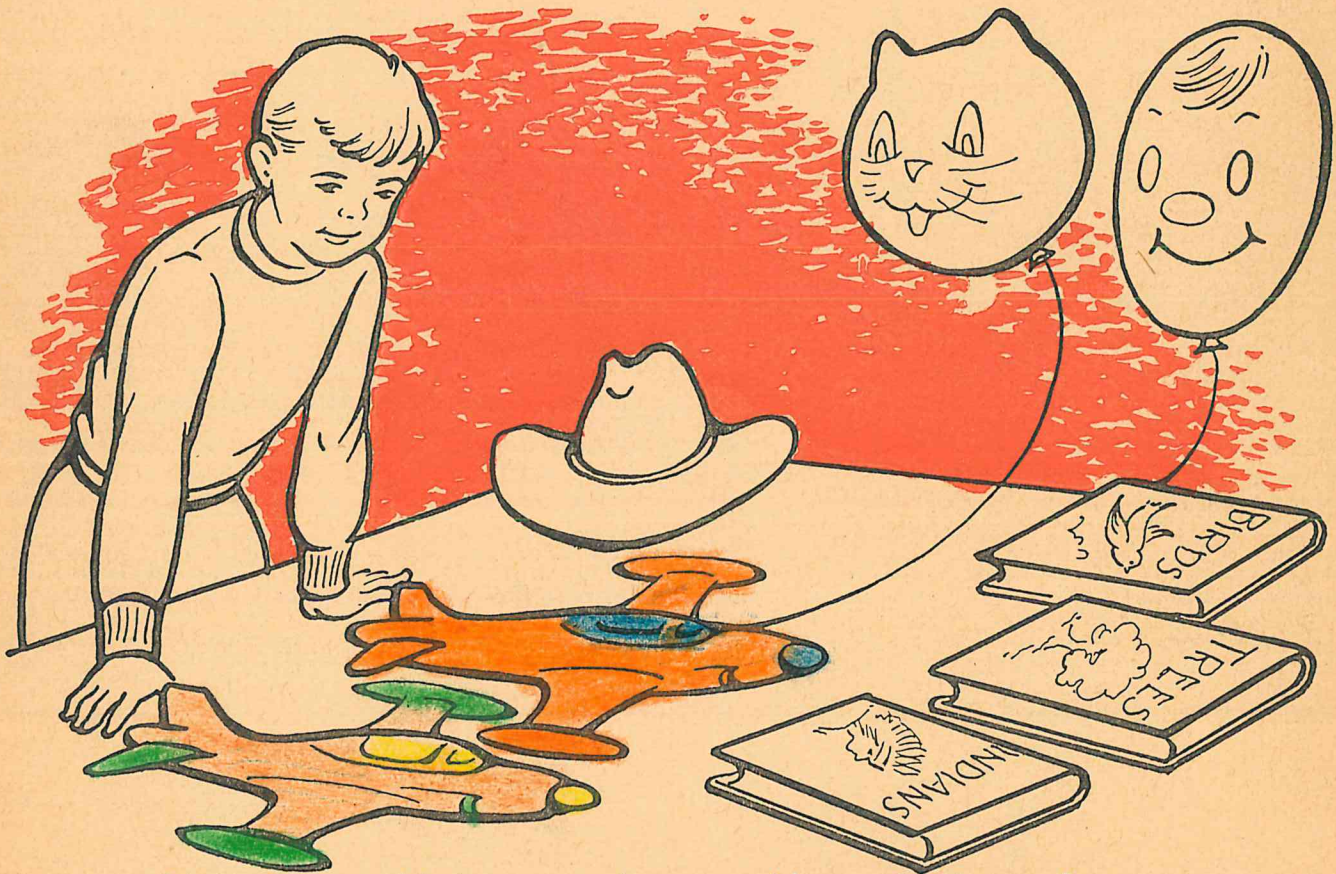
Jack's Birthday

Jack had a birthday. He was eight years old.
This is what Jack got for his birthday.

3 books
2 airplanes
1 cowboy hat
+ 2 funny balloons

Color Jack and his birthday presents.

How many presents did Jack get? 8 Did you begin to add at the top?



Now try to add these numbers.

Always begin at the top.

$$\begin{array}{r} 2 \\ 2 \\ 4 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ 3 \\ 2 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ 2 \\ 2 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ 3 \\ 2 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ 4 \\ 2 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ 2 \\ 1 \\ + 2 \\ \hline \end{array}$$

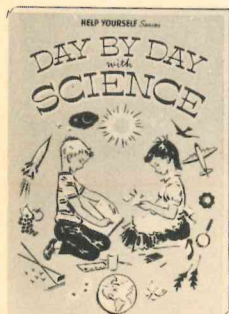
$$\begin{array}{r} 2 \\ 2 \\ 2 \\ + 2 \\ \hline \end{array}$$

It's Fun to Use Help Yourself Activity Books



Count, Color, Play

gives a child concrete experiences that develop beginning number meanings while he plays. *It's fun to learn to count!*



Day By Day With Science

teaches basic science facts with simple experiments, games, and pictures. *It's fun to learn about science!*



Read, Color, Play

will bring happy hours to a child who is ready to read. With coloring and games he plays as he reads. *It's fun to learn to read!*



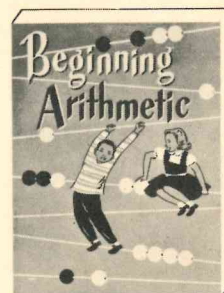
Spell and Play

is a first book for the child who wants to spell. Based on his own needs, it will entertain while it teaches. *It's fun to learn to spell!*



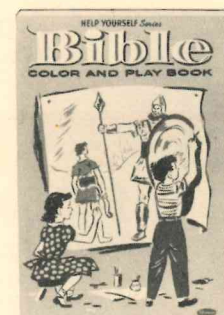
See It, Say It, Do It

helps a child with phonics. As he plays and colors he learns to sound out new words. *It's fun to learn about phonics!*



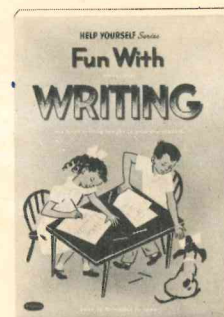
Beginning Arithmetic

makes a game of learning to add, subtract, tell time, and other number facts. *It's fun to learn about arithmetic!*



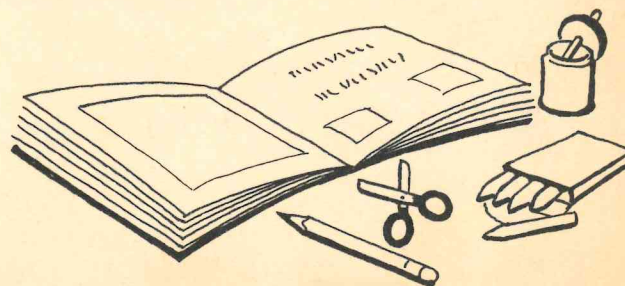
Bible Color and Play

teaches many things about the Old Testament with games, pictures, and coloring. *It's fun to learn about the Bible!*



Fun With Writing

teaches a beginner the manuscript type of handwriting used in primary schools today. *It's fun to learn to write!*



HELP YOURSELF *Series*

Beginning Arithmetic

REVISED EDITION



DART
Whitman